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# APPLICATION FOR EXTENSION OF PATENT TERM UNDER 35 USC 156 FOR U.S. PATENT NO. 5,968,973

Applicants

Mitsui Norin Co., Ltd.; and

Cancer Institute (Hospital), Chinese

Academy of Medical Sciences

Patent Issue Date :

October 19, 1999

Application

: 09/056,378

Serial No.

Application

: April 7, 1998

Filing Date

Inventors

Shu Jung CHENG; De Chang WANG;

and Yukihiko HARA

For

METHOD FOR TREATING

HYPERPLASIA

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Docket No.

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## APPLICATION FOR EXTENSION OF PATENT TERM UNDER 35 USC 156

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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Mitsui Norin Co., Ltd.; and

Cancer Institute (Hospital),

Chinese Academy of Medical Sciences

U.S. Patent No. : 5,968,973

Issue Date : October 19, 1999

Application : 09/056,378

Serial No.

Application : April 7, 1998

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Inventors : Shu Jung CHENG; De Chang WANG;

and Yukihiko HARA

For : METHOD FOR TREATING

HYPERPLASIA

Attorneys for : Frishauf, Holtz, Goodman & Chick, P.C.

Applicants

Customer No. : 01933

Attorney : 970232EXT1/HG

Docket No.

### APPLICATION FOR EXTENSION OF PATENT TERM UNDER 35 USC 156

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### MAIL STOP PATENT EXT.

#### SIR:

Pursuant to 201(a) of the Drug Price Competition and Patent Term Restoration Act of 1984, and in accordance with the

provisions of 35 USC 156, Mitsui Norin Co., Ltd., a corporation of Japan, having a place of business at 1-2-9, Nishishinbashi, Minato-ku, Tokyo 105-8427 Japan and Cancer Institute (Hospital), Chinese Academy of Medical Sciences, a corporation of the People's Republic of China, having a place of business at Panjiayuan No. 17, Chaoyang District, Beijing 100021, People's Republic of China (hereinafter referred to collectively as "Applicants"), the assignees of record of United States Patent No. 5,968,973, hereby apply for an extension of 1,300 days of the term of United States Patent No. 5,968,973 issued October 19, 1999 on patent application Serial No. 09/056,378 filed April 7, 1998.

The following information is submitted in accordance with .

35 USC 156(d) and 37 CFR 1.740, and follows the numerical format set forth in 37 CFR 1.740.

(1) A complete identification of the approved product as by appropriate chemical and generic name, physical structure and characteristics;

VEREGEN<sup>TM</sup> is a botanical drug product for topical use. The drug substance in VEREGEN<sup>TM</sup> is kunecatechins (also known as sinecatechins), which is a partially purified fraction of the water extract of green tea leaves from Camellia sinensis (L.) O Kuntze, and is a mixture of catechins and other green tea components. Catechins constitute 85 to 95% (by weight) of the total drug substance which includes more than 55% of Epigallocatechin gallate (EGCg), other catechin derivatives such as Epicatechin (EC), Epigallocatechin (EGC), Epicatechin gallate (ECg) and some additional minor catechin derivatives, i.e., Gallocatechin gallate (GCg), Gallocatechin (GC), Catechin gallate (Cg), and Catechin (C). In addition to the known catechin components, it also contains gallic acid, caffeine, and theobromine, which together constitute about 2.5% of the drug

substance. The remaining amount of the drug substance contains undefined botanical constituents derived from green tea leaves.

The structural formula of catechins is shown below. The proposed pharmacological class is immuno-modulatory.

#### General Structure of Catechins

Each gram of the ointment (VEREGEN<sup>™</sup> (kunecatechins)

Ointment, 15% (also known as POLYPHENON® E Ointment, 15%))

contains 150 mg of kunecatechins in a water-free ointment base consisting of isopropyl myristate, white petrolatum, cera alba (white wax), propylene glycol palmitostearate and oleyl alcohol.

POLYPHENON® is a registered trademark of Mitsui Norin Co., Ltd. POLYPHENON  $E^{\text{IM}}$  is a trademark of Mitsui Norin Co., Ltd. The VEREGEN<sup>TM</sup> trademark is used by Bradley Pharmaceuticals under a license from MediGene AG.

MediGene AG, which has a place of business at Lochhamer Str. 11, D-82152 Planegg/Martinsried, Germany, is an exclusive licensee of U.S. Patent No. 5,968,973 by virtue of a license agreement with Epitome Pharmaceuticals Limited. Epitome Pharmaceuticals Limited, having a place of business at 5162 Duke Street, Ste 500, Halifax, NS B3J 1N7 Canada, is a licensee of U.S. Patent No. 5,968,973 by virtue of a license agreement with Mitsui Norin Co., Ltd., a record owner of U.S. Patent No. 5,968,973.

A LETTER OF THE LICENSEE for each of MediGene AG and Epitome Pharmaceuticals Limited (attached hereto as Exhibits 1A and 1B, respectively) is being submitted concomitantly herewith, which provides authorization to the Applicants to rely on the activities and data of MediGene AG and Epitome Pharmaceuticals Limited before the Food and Drug Administration in obtaining approval of VEREGEN™ (kunecatechins) Ointment, 15% (also known as POLYPHENON® E Ointment, 15%) for the purpose of obtaining a patent term extension for United States Patent No. 5,968,973.

The Product Information Sheet for the approved product is the PACKAGE INSERT. A copy of the PACKAGE INSERT for the VEREGEN<sup>TM</sup> Ointment, 15% is attached hereto as Exhibit 2.

(2) A complete identification of the Federal Statute including the applicable provision of law under which the regulatory review occurred;

The regulatory review occurred under Section 505(b) of the Federal Food, Drug and Cosmetic Act ("FFDCA"), 21 USC 301, et seq. Section 505 provides for the submission and approval of new drug applications ("NDAs") for products.

(3) An identification of the date on which the product received permission for commercial marketing or use under the provision of law under which the applicable regulatory review period occurred;

VEREGEN<sup>TM</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E
Ointment, 15%) was approved by the Food and Drug Administration
("FDA") for commercial marketing pursuant to §505(b) of the
FFDCA on October 31, 2006 (see <u>Exhibit 3</u> (APPROVAL LETTER)).

(4) In the case of a human drug product, an identification of each active ingredient in the product and as to each active ingredient, a statement that it has not been previously approved for commercial marketing or use under the Federal Food, Drug and Cosmetic Act, the Public Health Service Act, or the Virus-Serum-Toxin Act, or a statement of when the active ingredient was approved for commercial marketing or use (either alone or

in combination with other active
...
ingredients), the use for which it was
approved, and the provision of law under
which it was approved;

The above ingredient in VEREGEN<sup>™</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%) comprises a mixture of polyphenols derived from a species of green tea, namely Camellia sinensis, by water extraction and fractionation by column chromatography. The active ingredient in VEREGEN<sup>™</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%) has not been previously approved for commercial marketing or use under the Federal Food, Drug and Cosmetic Act, the Public Health Service Act, or the Virus-Serum-Toxin Act.

A statement that the application is being submitted within the sixty (60) day period permitted for submission pursuant to §1.720(f) and an identification of the date of the last day on which the application could be submitted;

The product was approved for commercial marketing on October 31, 2006, and the last day within the sixty (60) day period permitted for submission of an application for extension (pursuant to 37 CFR 1.720(f)) of the patent is December 30, 2006. The date of submission of the present application is no later than December 30, 2006 and, therefore, the present application has been timely filed.

(6) A complete identification of the patent for which an extension is being sought by the name of the inventors, the patent number, the date of issue, and the date of expiration:

U.S. Patent No.

5,968,973

Issue Date

: October 19, 1999

Inventors

Shu Jun Cheng; De Chang Wang; Yukihiko Hara

Title

: METHOD FOR TREATING

HYPERPLASIA

Application

: 09/056,378

Serial No.

Application

: April 7, 1998

Filing Date

Expiration

: April 10, 2017

Date (unless

extended)

The application was assigned from the inventors to the Applicants by an Assignment recorded on April 7, 1998 in the United States Patent and Trademark Office at Reel 9088, Frame 0322. A copy of the Recorded Assignment for USP 5,968,973 is attached herewith as Exhibit 4.

A correction of the address of Mitsui Norin Co., Ltd. was recorded in the United States Patent and Trademark Office on September 15, 1997 at Reel 8696, Frame 0607. A Change of Name Due to Merger (changing the name of Mitsui Norin Co., Ltd. to Nittoh Food Co., Ltd.) was recorded in the United States Patent and Trademark Office on September 29, 2003 at Reel 014532, Frame 0308. A Change of Name (changing the name of Nittoh Food Co., Ltd. back to Mitsui Norin Co., Ltd.) was recorded in the United States Patent and Trademark Office on October 6, 2003 at Reel 014546, Frame 0842. A Change of Address of Assignee (Mitsui Norin Co., Ltd.) was recorded at the United States Patent and Trademark Office on September 27, 2005 at Reel 016844, Frame 0058.

(7) A copy of the patent for which an extension is being sought, including the entire specification (including claims); A copy of U.S. Patent No. 5,968,973 is attached as Exhibit 5 (PATENT).

(8) A copy of any disclaimer, certificate of correction, receipt of maintenance fee payment, or reexamination certificate issued in the patent;

Attached hereto as <a href="Exhibit 6">Exhibit 6</a> is a copy of a TERMINAL DISCLAIMER that was filed during the prosecution of the application that issued as U.S. Patent No. 5,968,973

No Reexamination certificate has been issued.

A Certificate of Correction for United States Patent No. 5,968,973 was issued on January 13, 2004. A copy of said Certificate of Correction is attached herewith as Exhibit 7.

A maintenance fee payment was made to the United States

Patent and Trademark Office for United States Patent No.

5,968,973. A copy of the receipt for such maintenance fee

payment, received from the United States Patent and Trademark

Office, is attached hereto as Exhibit 8.

- (9) A statement that the patent claims the approved product, or a method of using or manufacturing the approved product, and a showing which lists each applicable patent claim and demonstrates the manner in which at least one patent claim reads on:
  - (i) The approved product, if the listed claims include any claim to the approved product;
  - (ii) The method of using the approved product, if the listed claims include any claims to the method of using the approved product; and
  - (iii) The method of manufacturing the approved
     product, if the listed claims include any
     claim to the method of manufacturing the approved
     product;

The approved product VEREGEN<sup>™</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%), which comprises a tea catechin, has been approved for treating external genital and perianal warts (Condyloma acuminata) in immunocompetent patients 18 years or older.

The following claims 1, 2, 3, 4, 7, 8, 9, 10, 11, 16, 18 and 20 of U.S. Patent No. 5,968,973 include the approved use of the approved product.

- 1. A method for treating hyperplasia caused by a papilloma virus comprising administering to a human in need thereof a composition which comprises a tea catechin in an effective anti-hyperplasia amount.
- 2. The method according to claim 1, wherein tea catechin comprises (-)-epigallocatechin gallate.
- 3. The method according to claim 1, wherein said composition is in the form of an ointment.
- 4. The method according to claim 2, wherein said composition is in the form of an ointment.
- 7. The method of claim 3, wherein the tea catechin is in an amount of 2 to 20% by weight.
- 8. The method of claim 3, wherein the tea catechin is in an amount of 5 to 20% by weight.

- 9. The method of claim 3, wherein the tea catechin is in an amount of 15% by weight.
- 10. The method of claim 8, wherein the composition comprises vaseline as a base to form a cream.
- 11. The method of claim 10, wherein the cream is topically applied to external genital organs.
- 16. The method of claim 1, wherein the composition is topically applied to an infected area on a human.
- 18. The method according to claim 16, wherein the infected area is an external genital organ.
- 20. The method according to claim 1, wherein the papilloma virus causes Condyloma acuminata.

#### Claim 1

Claim 1 recites a method of treating hyperplasia caused by a papilloma virus comprising administering to a human a composition which comprises a tea catechin. As disclosed in column 2, lines 7 to 16 of U.S. Patent No. 5,968,973, claim 1 covers the treatment of Condyloma acuminata. Claim 1 thus recites the active ingredient of the approved product, namely a catechin, for the approved use, namely treating Condyloma acuminata.

#### Claim 2

Claim 2 (which depends on claim 1) recites that the tea catechin comprises (-)-epigallocatechin gallate. As shown in the General Structure of Catechins hereinabove, (-)-epigallocatechin gallate is a tea catechin and is thus included in the active ingredient of the approved product.

#### Claims 3 and 4

In claim 3 (which depends on claim 1) and claim 4 (which depends on claim 2), an ointment is recited. The approved product is an ointment.

#### Claim 7

In claim 7 (which depends on claim 3), an ointment having 2-20% by weight of tea catechin is recited. The approved product has 15% by weight of tea catechin.

#### Claim 8

In claim 8 (which depends on claim 3), an ointment having 5-20% by weight of tea catechin is recited. The approved product has 15% by weight of tea catechin.

#### Claim 9

In claim 9 (which depends on claim 3), 15% by weight of tea catechin is recited. The approved product has 15% by weight of tea catechin.

#### Claim 10

Claim 10 (which depends on claim 8) recites that the composition contains vaseline. The approved product includes white petrolatum.

#### Claims 11 and 18

Claim 11 (which depends on claim 10) and claim 18 (which depends on claim 16) each recite that the composition is applied to external genital organs. The approved use covers application of the approved product to an external genital organ.

#### Claim 16

Claim 16 (which depends on claim 1) recites that the composition is topically applied to an infected area on a human. The approved use covers a topical application.

#### Claim 20

Claim 20 (which depends on claim 1) recites that the papilloma virus causes Condyloma acuminata. The approved use is for treating Condyloma acuminata.

- (10) A statement beginning on a new page of the relevant dates and information pursuant to 35 USC 156(g) in order to enable the Secretary of Health and Human Services or the Secretary of Agriculture, as appropriate, to determine the applicable regulatory review period as follows:
  - (i) For a patent claiming a human drug, antibiotic or human biological product:
    - (A) The effective date of the investigational new drug (IND) application and the IND number;
    - (B) The date on which a new drug application (NDA) or a Product License Application (PLA) was initially submitted and the NDA or PLA number; and
    - (C) The date on which the NDA was approved or the Product License issued;

On July 7, 1998, a "Notice of Claimed Investigational Exemption for a New Drug" ("IND") was submitted to the Food and Drug Administration (hereinafter sometimes referred to as the "FDA") for POLYPHENON® E Ointment, 15%. A copy of the IND submission letter is submitted herewith as <a href="Exhibit 9">Exhibit 9</a> (IND SUBMISSION LETTER).

The IND was assigned number 56,401. The IND became effective on August 13, 1998, which is thirty (30) days after receipt of the IND by the FDA, i.e., July 14, 1998. A copy of the IND acknowledgment letter is submitted herewith as <a href="Exhibit">Exhibit</a> 10 (IND ACKNOWLEDGMENT LETTER).

This establishes the beginning of the "regulatory review period" under 35 USC 156(g)(1) as of August 13, 1998.

On September 23, 2005, a new drug application (NDA 21-902) was submitted under §505(b) of the Federal Food, Drug and Cosmetic Act (FDDCA) and §314.50 of Title 21 of the Code of

Federal Regulations for POLYPHENON® E Ointment, 15%. A copy of the September 23, 2005 letter attached to NDA 21-902 is provided herewith as Exhibit 11 (NDA SUBMISSION LETTER).

NDA 21-902 for VEREGEN<sup>™</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%) was approved on October 31, 2006. Attached as Exhibit 3 (APPROVAL LETTER) is a copy of a letter dated October 31, 2006 from the FDA approving NDA 21-902 for VEREGEN<sup>™</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%).

Thus, for the purposes of determining the "regulatory review period" under 35 USC §156(g)(1), October 31, 2006 is the date of the first approval of VEREGEN<sup>TM</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%).

#### Summary of the Most Relevant Dates

July 7, 1998 : IND for POLYPHENON® E Ointment, 15% submitted

July 14, 1998 : Receipt by the FDA of the IND for

POLYPHENON® E Ointment, 15%

August 13, 1998 : IND 56,401 for POLYPHENON® E Ointment,

15% became effective

September 23, 2005 : NDA 21-902 for POLYPHENON® E Ointment,

15% was submitted

October 31, 2006 : NDA 21-902 for VEREGEN™ (kunecatechins)

Ointment, 15% (POLYPHENON® E Ointment,

15%) was approved

(11) A brief description, beginning on a new page, of the significant activities undertaken by the marketing applicant during the applicable regulatory review period with respect to the approved product and the significant dates applicable to such activities.

As described above, in item (10) hereinabove, an IND for POLYPHENON® E Ointment, 15% was submitted on July 7, 1998, which became effective on August 13, 1998. The studies under the IND are summarized in the attached <a href="Exhibit 12">Exhibit 12</a> (IND LOG). These studies were used to support NDA 21-902 which was submitted on September 23, 2005.

Subsequent to the submission of the aforesaid NDA, personnel of the applicants have had numerous contacts and meetings with FDA personnel with respect to the new drug application, and these are summarized in the attached <a href="Exhibit 13">Exhibit 13</a> (NDA LOG).

(12) A statement, beginning on a new page, that in the opinion of the Applicants the patent is eligible for the extension and a statement as to the length of the extension claimed, including how the length of extension was determined;

### Statement of Eligibility of the Patent for Extension Under §35 USC 156(a) and (c)(4)

Section 156(a) provides, in relevant part, that the term of a patent which claims a product, a method of using a product or a method of manufacturing a product shall be extended if (1) the term of the patent has not expired before an application for extension is submitted, (2) the term of the patent has never been extended, (3) the application for extension is submitted by the owner of record of the patent or its agent in accordance with 35 USC §156(d), (4) the product has been subject to a regulatory review period before its commercial marketing or use, and (5) the permission for commercial marketing or use of the product after such regulatory review period is the first permitted commercial marketing or use of the product under the provision of law under which such regulatory review period

occurred; and §156(c)(4) provides, that in no event shall more than one patent be extended for the same regulatory review period for any product.

As described by corresponding letters, each of these elements is satisfied herein as follows:

- (a) The statutory term of U.S. Patent No. 5,968,973 expires on April 10, 2017. This Application for Extension of Patent Term has, therefore, been submitted before the expiration of the patent term.
  - (b) The term of this patent has never been extended.
- (c) This Application for Extension of Patent Term is submitted by the owners of record, namely Mitsui Norin Co., Ltd. and Cancer Institute (Hospital), Chinese Academy of Medical Sciences. This Application for Extension of Patent Term is submitted in accordance with 35 USC §156(d) in that it is submitted within the sixty (60) day period beginning on the date, October 31, 2006, that the product received permission for

marketing under the Federal Food, Drug and Cosmetic Act and contains the information required under 35 USC §156(d).

- (d) As evidenced by the October 31, 2006 letter from the FDA, Exhibit 3 (APPROVAL LETTER), the product was subject to a regulatory review period under §505(b)(1) of the FFDCA before its commercial marketing or use.
- (e) The permission for the commercial marketing of VEREGEN<sup>™</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%) after regulatory review under §505(b)(1) is the first permitted commercial marketing of VEREGEN<sup>™</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%). This is confirmed by the absence of any approved new drug application under which VEREGEN<sup>™</sup> (kunecatechins) Ointment, 15% (POLYPHENON® E Ointment, 15%) could be commercially marketed prior to October 31, 2006.

### Statement as to Length of Extension Claimed in Accordance with 37 USC §1.775

The term of U.S. Patent No. 5,968,973 should be extended for a period of 1,300 days to extend to October 31, 2020.

The period of extension is determined in accordance with 35 USC §156 and follows the format set forth in 37 CFR 1.775(c) and (d).

37 CFR §1.775(c). The length of the regulatory review period for a human drug, antibiotic drug or human biological product will be determined by the Secretary of Health and Human Services. Under 35 USC §156(g)(1)(B), it is the sum of:

(1) The number of days in the period beginning on the date an exemption under subsection (i) of section 505 or subsection (d) of section 507 of the Federal Food, Drug and Cosmetic Act became effective for the approved product and ending on the date the application was initially submitted for such product under

those sections or under section 351 of the Public Health Service Act;

The number of days between the effective date of the initial IND, August 13, 1998, and the initial submission of NDA 21-902, September 23, 2005, is a period of 2,598 days, and

(2) The number of days in the period beginning on the date the application was initially submitted for the approved product under section 351 of the Public Health Service Act, subsection (b) of section 505 or section 507 of the Federal Food Drug and Cosmetic Act and ending on the date such application was approved under such section.

The number of days between the initial submission of NDA 21-902 on September 23, 2005, to approval of NDA 21-902 on October 31, 2006 is a period of 403 days.

- 37 CFR §1.775(d). The term of the patent as extended for a human drug, antibiotic drug or human biological product will be determined by -
- (1) Subtracting from the number of days determined by the Secretary of Health and Human Services to be in the regulatory review period;
  - (i) The number of days in the period of paragraphs (c)(1) and (c)(2) of this section which were on and before the date on which the patent issued;

The number of days in the period of the IND, effective on August 13, 1998, which were on or before October 19, 1999, the date the patent issued, is a period of 0 days;

2598 days minus 0 days equals 2,598 days, and

the number of days in the period of the NDA initial submission of NDA 21-902 on September 23, 2005, and approval on October 31, 2006 which were on or before October 19, 1999, the date the patent issued, is a period of 0 days.

403 days minus 0 days equals 403 days.

(ii) The number of days in the periods of paragraphs
(c) (1) and (c) (2) of this section during
which it is determined under 35 USC
156(d) (2) (B) by the Secretary of Health and
Human Services that applicant did not act
with due diligence;

The number of days the Applicant did not act with due diligence is 0 days, therefore

2,598 days minus 0 days equals 2,598 days;

403 days minus 0 days equals 403 days.

(iii) One-half the number of days remaining in the the period defined by paragraph (c)(1) of this section after that period is reduced in accordance with paragraphs (d)(1)(i) and (ii) of this section; half days will be ignored for purposes of subtraction;

One-half of 2,598 days equals 1,299 days.

(2) By adding the number of days determined in paragraph (d)(1) of this section to the original term of the patent, as shortened by any terminal disclaimer;

403 days + 1,299 days = 1,702 days.

Adding 1,702 days to April 10, 2017, the original term of the patent (a terminal disclaimer was submitted), extends the term to December 8, 2021.

(3) By adding 14 years to the date of approval of the application under section 351 of the Public Health Service Act, or subsection (b) of

section 505 or 507 of the Federal Food, Drug and Cosmetic Act;

Adding 14 years to October 31, 2006, the date of approval of the Application, results in the date of October 31, 2020.

(4) By comparing the dates for the ends of the periods obtained pursuant to paragraphs(d)(2) and (d)(3) of this section with each other and selecting the earlier date;

The earlier date is October 31, 2020.

- (5) If the original patent was issued after September 24, 1984,
- (i) By adding 5 years to the original expiration date of the patent or any earlier date set by terminal disclaimer; and

Adding 5 years to the original expiration date of the patent (April 10, 2017) results in the date of April 10, 2022.

(ii) By comparing the dates obtained pursuant to paragraphs (d)(4) and (d)(5)(i) of this section with each other and selecting the earlier date;

Comparing October 31, 2020 and April 10, 2022, the earlier date is October 31, 2020 and therefore the patent term should be extended to October 31, 2020.

(6) If the original patent was issued before September 24, 1984, and ....

This is not applicable for the above-identified patent.

(13) A statement that Applicant acknowledges a duty to disclose to the Commissioner for Patents and Trademarks and the Secretary of Health and Human Services or the Secretary of Agriculture any information which is material to the determination of entitlement to the extension sought (see §1.765);

Applicants acknowledge a duty to disclose to the Commissioner for Patents and Trademarks and to the Secretary of Health and Human Services any information which is material to any determination to be made relative to the application for extension.

Other than the information set forth hereinabove and submitted herewith, Applicants are unaware of any additional information material to this Application for Extension of Patent Term.

(14) The prescribed fee for receiving and acting upon the application for extension (see §1.20(j));

Form PTO-2038 in the amount of One Thousand One Hundred Twenty Dollars (\$1,120) in payment of the prescribed fee for receiving and acting upon the application for extension is enclosed herewith.

(15) The name, address and telephone number of the person to whom inquiries and correspondence relating to the application for patent term extension are to be directed:

Richard S. Barth, Esq.

Frishauf, Holtz, Goodman

& Chick, P.C.

220 Fifth Avenue, 16th Fl.

New York, NY 10001-7708

Tel. No. (212) 319-4900

Fax No.: (212) 319-5101

E-Mail: BARTH@FHGC-LAW.COM.

This application is being signed by the undersigned registered practitioner on behalf of the patent owners.

Frishauf, Holtz, Goodman & Chick, P.C.

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Respectfully submitted,

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E-Mail Address: BARTH@FHGC-LAW.COM

RSB/ddf

# EXHIBIT 1A LETTER OF LICENSEE OF MEDIGENE AG



MediGene AG Lochhamer Str. 11 D - 82152 Planegg/Martinsried

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### MAIL STOP PATENT EXT.

Martinsried, December 18, 2006 CR

Re: Application for Extension of Patent Term Under 35 USC 156 for U.S. Patent No. 5,968,973

SIR:

- I, Peter Heinrich, Chief Executive Officer of MediGene AG, state as follows:
- 1. MediGene AG has a place of business at Lochhamer Str. 11, D-82152, Planegg/Martinsried, Germany.
- 2. MediGene AG is an exclusive licensee of U.S. Patent No. 5,968,973 by virtue of a license agreement with Epitome Pharmaceuticals Limited. Epitome Pharmaceuticals Limited is an exclusive licensee of U.S. Patent No. 5,968,973 by virtue of a license agreement with Mitsui Norin Co., Ltd., a record owner of U.S. Patent No. 5,968,973.
- 3. U.S. Patent No. 5,968,973 includes claims covering treating *Condyloma* acuminata comprising administering to a human a composition which comprises a tea catechin.
- 4. U.S. Patent No. 5,968,973 includes claims covering the use of POLYPHENON® E Ointment, 15%, also known as VEREGEN™, (which contains a tea catechin) to treat genital warts (*Condyloma acuminata*).
- 5. MediGene AG, in conjunction with Epitome Pharmaceuticals Limited, participated in the clinical evaluation and registration of POLYPHENON® E Ointment, 15%, pursuant to NDA 21-902. NDA 21-902 was submitted to the Food and Drug Administration by MediGene, Inc.
- 6. The relationship between MediGene AG and MediGene, Inc. is as follows: MediGene, Inc. is a fully owned subsidiary of MediGene AG.
- 7. MediGene AG hereby authorizes Mitsui Norin Co., Ltd. and Cancer Institute (Hospital), Chinese Academy of Medical Sciences to rely on the activities of MediGene AG



and MediGene, Inc. pursuant to NDA 21-902 to file an application under 35 U.S.C. §156 for extension of patent term for U.S. Patent No. 5,968,973.

Very truly yours,

Peter Heinrich

# EXHIBIT 1B LETTER OF LICENSEE OF EPITOME PHARMACEUTICALS LIMITED



Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 December 18, 2006

MAIL STOP PATENT EXT.

Re: Application for Extension of Patent Term Under 35 USC 156 for U.S. Patent No. 5,968,973

SIR:

- I, Paul T. Wegener, President of Epitome Pharmaceuticals Limited, having authority to act on behalf of Epitome Pharmaceuticals Limited, state as follows:
- 1. Epitome Pharmaceuticals Limited has a place of business at 5162 Duke Street, Ste 500, Halifax, NS B3J 1N7 Canada.
- 2. Epitome Pharmaceuticals Limited is a licensee of U.S. Patent No. 5,968,973 by virtue of a license agreement with Mitsui Norin Co., Ltd., a record owner of U.S. Patent No. 5,968,973.
- 3. U.S. Patent No. 5,968,973 includes claims covering treating *Condyloma acuminata* comprising administering to a human a composition which comprises a tea catechin.
- 4. U.S. Patent No. 5,968,973 includes claims covering the use of POLYPHENON® E Ointment, 15%, also known as VEREGEN<sup>TM</sup>, (which contains a tea catechin) to treat genital warts (*Condyloma acuminata*). IND No. 56,401 for Polyphenon Ointment was filed by Epitome Pharmaceuticals Limited.
- 5. Epitome Pharmaceuticals Limited, in conjunction with MediGene AG, participated in the clinical evaluation and registration of POLYPHENON® E Ointment, 15%, pursuant to NDA 21-902. NDA 21-902 was submitted to the Food and Drug Administration by MediGene, Inc. (which is a fully owned subsidiary of MediGene AG). MediGene AG is a licensee of U.S. Patent No. 5,968,973 by virtue of a license agreement with Epitome Pharmaceuticals Limited.
- 6. Epitome Pharmaceuticals Limited hereby authorizes Mitsui Norin Co., Ltd. and Cancer Institute (Hospital), Chinese Academy of Medical Sciences to rely on the activities of Epitome Pharmaceuticals Limited pursuant to IND 56,401 and NDA 21-902 to file an application under 35 U.S.C. §156 for extension of patent term for U.S. Patent No. 5,968,973.

Very truly yours,
Paul T. Wegener

# EXHIBIT 2 PACKAGE INSERT

### **VEREGEN**<sup>TM</sup>

(Kunecatechins)

Ointment, 15%

### Rx Only

# For Topical Dermatologic Use Only Not for Ophthalmic, Oral, Intravaginal, or Intra-anal Use

#### **DESCRIPTION**

Veregen<sup>TM</sup> is a botanical drug product for topical use. The drug substance in Veregen is Kunecatechins, which is a partially purified fraction of the water extract of green tea leaves from Camellia sinensis (L.) O Kuntze, and is a mixture of catechins and other green tea components. Catechins constitute 85 to 95% (by weight) of the total drug substance which includes more than 55% of Epigallocatechin gallate (EGCg), other catechin derivatives such as Epicatechin (EC), Epigallocatechin (EGC), Epicatechin gallate (ECg) and some additional minor catechin derivatives i.e. Gallocatechin gallate (GCg), Gallocatechin (GC), Catechin gallate (Cg), and Catechin (C). In addition to the known catechin components, it also contains gallic acid, caffeine, and theobromine which together constitute about 2.5% of the drug substance. The remaining amount of the drug substance contains undefined botanical constituents derived from green tea leaves.

The structural formulae of catechins are shown below.

### **General Structure of Catechins**

Each gram of the ointment contains 150 mg of Kunecatechins in a water free ointment base consisting of isopropyl myristate, white petrolatum, cera alba (white wax), propylene glycol palmitostearate, and oleyl alcohol.

### **CLINICAL PHARMACOLOGY**

### Pharmacodynamics

The mode of action of Veregen<sup>TM</sup> Ointment, 15% involved in the clearance of genital and perianal warts is unknown. In vitro, Kunecatechins had anti-oxidative activity; the clinical significance of this finding is unknown.

### **Pharmacokinetics**

The pharmacokinetics of topically applied Veregen Ointment has not been sufficiently characterized at this time. However, data suggest that systemic exposure to catechins after repeated topical application of Veregen Ointment 15% is likely to be less than observed after a single oral intake of 400ml green tea.

#### **CLINICAL STUDIES**

Two Phase 3 randomized, double-blind, vehicle-controlled studies were performed to investigate the safety and efficacy of Veregen<sup>TM</sup> Ointment in the treatment of immunocompetent patients 18 years of age and older with external genital and perianal warts. The subjects applied the ointment 3 times daily for up to 16 weeks or until complete clearance of all warts (baseline and new warts occurring during treatment).

Over both studies the median baseline wart area was 51 mm<sup>2</sup> (range 12 to 585 mm<sup>2</sup>), and the median baseline number of warts was 6 (range 2 to 30).

The primary efficacy outcome measure was the response rate defined as the proportion of patients with complete clinical (visual) clearance of all external genital and perianal warts (baseline and new) by week 16, presented in Tables 1 and 2 for all randomized subjects dispensed medication.

Table 1: Efficacy by Region

Table 2. Efficacy by Gender

	Complete Clearance		Complete Clearance
All Countries		Males	
(includes the United States) Veregen <sup>TM</sup> 15% (N = 397) Vehicle (N = 207)	213 (53.6%) 73 (35.3%)	Veregen <sup>TM</sup> 15% (N = 205) Vehicle (N = 118)	97 (47.3%) 34 (28.8%)
United States Veregen <sup>TM</sup> 15% (N = 21) Vehicle (N = 9)	5 (23.8%) 0 (0.0%)	Females Veregen <sup>TM</sup> 15% ( $N = 192$ ) Vehicle ( $N = 89$ )	116 (60.4%) 39 (43.8%)

Median time to complete wart clearance was 16 weeks and 10 weeks, respectively, in the two phase 3 clinical trials.

The incidence rate of recurrence of external genital and perianal warts after treatment in patients with complete clearance is unknown.

### INDICATION AND USAGE

Veregen<sup>TM</sup> is indicated for the topical treatment of external genital and perianal warts (*Condylomata acuminata*) in immunocompetent patients 18 years and older.

#### CONTRAINDICATIONS

Veregen<sup>TM</sup> is contraindicated in individuals with a history of sensitivity reactions to any of the components of the ointment. In case of hypersensitivity, treatment should be discontinued.

#### **WARNINGS**

Veregen<sup>™</sup> has not been evaluated for the treatment of urethral, intra-vaginal, cervical, rectal, or intra-anal human papilloma viral disease and should not be used for the treatment of these conditions.

#### **PRECAUTIONS**

#### General

Use of Veregen<sup>TM</sup> on open wounds should be avoided.

The safety and efficacy of Veregen<sup>TM</sup> in immunosuppressed patients have not been established. Safety and efficacy have not been established for Veregen in the treatment of external genital and perianal warts beyond 16-weeks or for multiple treatment courses.

Patients should be advised to avoid exposure of the genital and perianal area to sun/UV-light as Veregen<sup>TM</sup> has not been tested under these circumstances.

### **Information for Patients**

### General Information

Patients using Veregen<sup>TM</sup> should receive the following information and instructions:

- 1. This medication is only to be used as directed by a physician. It is for external use only. Eye contact should be avoided as well as application into the vagina or anus.

  2. It is not necessary to wash off Veregen prior to the next application. When the treatment area
- is washed or a bath is taken, the ointment should be applied afterwards.
- 3. It is common for patients to experience local skin reactions such as erythema, erosion, edema, itching, and burning at the site of application. Severe skin reactions can occur and should be promptly reported to the healthcare provider. Should severe local skin reaction occur, the ointment should be removed by washing the treatment area with mild soap and water and further doses held.
- 4. Sexual (genital, anal or oral) contact should be avoided while the ointment is on the skin, or the ointment should be washed off prior to these activities. Veregen<sup>TM</sup> may weaken condoms and vaginal diaphragms. Therefore the use in combination with Veregen<sup>TM</sup> is not recommended.
- 5. Female patients using tampons should insert the tampon before applying the ointment. If the tampon is changed while the ointment is on the skin, accidental application of the ointment into the vagina must be avoided.
- 6. Veregen<sup>TM</sup> may stain clothing and bedding.
- 7. Veregen<sup>TM</sup> is not a cure and new warts might develop during or after a course of therapy. If new warts develop during the 16 -week treatment period, these should also be treated with Veregen<sup>TM</sup>.
- 8. The effect of Veregen<sup>TM</sup> on the transmission of genital/perianal warts is unknown.
- 9. Patients should be advised to avoid exposure of the genital and perianal area to sun/UV light as Veregen<sup>TM</sup> has not been tested under these circumstances.
- 10. The treatment area should not be bandaged or otherwise covered or wrapped as to be occlusive.
- 11. Uncircumcised males treating warts under the foreskin should retract the foreskin and clean the area daily.

### Carcinogenesis, Mutagenesis, Impairment of Fertility

The Maximum Recommended Human Dose (MRHD) of Veregen<sup>TM</sup> Ointment, 15% was set at three times daily topical administration of 250 mg, 750 mg total, containing 112.5 mg Kunecatechins for the animal multiple of human exposure calculations presented in this labeling. Dose multiples were calculated based on the human equivalent dose (HED).

In an oral (gavage) carcinogenicity study, Kunecatechins was administered daily for 26 weeks to p53 transgenic mice at doses up to 500 mg/kg/day (22-fold MRHD). Treatment with Kunecatechins was not associated with an increased incidence of either neoplastic or non-neoplastic lesions in the organs and tissues examined. Veregen<sup>TM</sup> Ointment, 15% has not been evaluated in a dermal carcinogenicity study.

Kunecatechins was negative in the Ames test, in vivo rat micronucleus assay, UDS test, and transgenic mouse mutation assay, but positive in the mouse lymphoma mutation assay.

Daily vaginal administration of Veregen<sup>TM</sup> Ointment, 15% to rats from Day 4 before mating and throughout mating until Day 17 of gestation did not cause adverse effects on mating performance and fertility at doses up to 0.15 mL/rat/day. This dose corresponds to approximately 150 mg/rat/day (8-fold MRHD).

# Pregnancy Category: C

Embryo-fetal development studies were conducted in rats and rabbits using intravaginal and systemic routes of administration, respectively. Oral administration of Kunecatechins during the period of organogenesis (gestational Days 6 to 15 in rats or 6 to 18 in rabbits) did not cause treatment related effects on embryo-fetal development or teratogenicity at doses of up to 1,000 mg/kg/day (86-fold MRHD in rats; 173-fold MRHD in rabbits).

In the presence of maternal toxicity (characterized by marked local irritation at the administration sites and decreased body weight and food consumption) in pregnant female rabbits, subcutaneous doses of 12 and 36 mg/kg/day of Kunecatechins during the period of organogenesis (gestational Days 6 to 19) resulted in corresponding influences on fetal development including reduced fetal body weights and delays in skeletal ossification. No treatment related effects on embryo-fetal development were noted at 4 mg/kg/day (0.7-fold MRHD). There was no evidence of teratogenic effects at any of the doses evaluated in this study.

A combined fertility / embryo-fetal development study using daily vaginal administration of Veregen<sup>TM</sup> Ointment, 15% to rats from Day 4 before mating and throughout mating until Day 17 of gestation did not show treatment-related effects on embryo-fetal development or teratogenicity at doses up to 0.15 mL/rat/day (8-fold MRHD).

A pre- and post-natal development study was conducted in rats using vaginal administration of Veregen<sup>TM</sup> Ointment, 15% at doses of 0.05, 0.10 and 0.15 mL/rat/day from Day 6 of gestation through parturition and lactation. The high and intermediate dose levels of 0.15 (8-fold MRHD) and 0.10 mL/rat/day resulted in an increased mortality of the F<sub>0</sub> dams, associated with indications of parturition complications. The high dose level of 0.15 mL/rat/day also resulted in an increased incidence of stillbirths. There were no other treatment-related effects on pre- and post-natal development, growth, reproduction and fertility at any dose tested.

NDA 21-902

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There are no adequate and well-controlled studies in pregnant women. Veregen<sup>TM</sup> Ointment, 15% should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

**Nursing Mothers** 

It is not known whether topically applied Veregen<sup>TM</sup> is excreted in breast milk.

#### Pediatric Use

Safety and efficacy in pediatric patients have not been established.

#### Geriatric Use

Seven patients (1.4%), older than 65 years of age were treated with Veregen<sup>TM</sup> in clinical studies. This, however, is an insufficient number of subjects to determine whether they respond differently from younger subjects.

### ADVERSE REACTIONS

### ADVERSE EVENTS / LOCAL SKIN REACTIONS

In Phase 3 clinical trials, a total of 397 subjects received Veregen<sup>TM</sup> Ointment, 15% three times per day topical application for the treatment of external genital and perianal warts for up to 16 weeks.

Serious local adverse events of pain and inflammation were reported in two subjects (0.5%), both women.

In clinical trials, the incidence of local adverse events leading to discontinuation or dose interruption (reduction) was 5% (19/397). These included the following events: application site reactions (local pain, erythema, vesicles, skin erosion/ulceration), phimosis, inguinal lymphadenitis, urethral meatal stenosis, dysuria, genital herpes simples, vulvitis, hypersensitivity, pruritus, pyodermitis, skin ulcer, erosions in the urethral meatus, and superinfection of warts and ulcers.

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect rates observed in practice.

Local and regional reactions (includes adenophathy) occurring at >1% in the treated group are presented in Table 3.

Table 3: Local and Regional Adverse Reactions During

Treatment (% Subjects)

Treatment (70 Subjects)	**	
	Veregen	Vehicle
	(N=397)	(N=207)
Erythema	70	32
Pruritus	69	45
Burning	67	31
Pain/discomfort	56	14
Erosion/Ulceration	49	10
Edema	45	11
Induration	35	11
Rash vesicular	20	6
Regional Lymphadenitis	. 3	1
Desquamation	5	<1
Discharge	3	<1
Bleeding	2	<1
Reaction	2	0
Scar	1	0
Irritation	• 1	0
Rash	1	Ō

A total of 266/397 (67%) of subjects in the Veregen, 15% group had either a moderate or a severe reaction that was considered probably related and of these 120 (30%) subjects had a severe reaction. Severe reactions occurred in 37% (71/192) of women and in 24% (49/205) of men. The percentage of subjects with at least one severe, related adverse event was 26% (86/328) for subjects with genital warts only, 42% (19/45) in subjects with both genital and perianal warts and 48% (11/23) of subjects with perianal warts only.

Phimosis occurred in 3% of uncircumcised male subjects (5/174) treated with Veregen and in 1% (1/99) in vehicle.

The maximum mean severity of erythema, erosion, edema and induration was observed by week 2 of treatment.

Less common local adverse events included urethritis, perianal infection, pigmentation changes, dryness, eczema, hyperesthesia, necrosis, papules, and discoloration. Other less common adverse events included cervical dysplasia, pelvic pain, cutaneous facial rash and staphylococcemia.

In a dermal sensitization study of Veregen ointment in healthy volunteers, hypersensitivity (type IV) was observed in 5 out of 209 subjects (2.4%) under occlusive conditions.

#### **OVERDOSAGE**

Overdosage with Veregen<sup>TM</sup> has not been reported.

#### DOSAGE AND ADMINISTRATION

Veregen<sup>TM</sup> Ointment, 15% is to be applied three times per day to all external genital and perianal warts.

It is recommended to wash the hands before and after application of Veregen<sup>TM</sup> About an 0.5 cm strand of the Veregen<sup>TM</sup> Ointment, 15% should be applied to each wart using the finger(s), dabbing it on to ensure complete coverage and leaving a thin layer of the ointment on the warts.

It is not necessary to wash off the ointment from the treated area prior to the next application.

Treatment with Veregen<sup>TM</sup> should be continued until complete clearance of all warts, however no longer than 16 weeks.

Local skin reactions (e.g. erythema) at the treatment site are frequent. Nevertheless, treatment should be continued when the severity of the local skin reaction is acceptable.

### **HOW SUPPLIED**

Veregen<sup>TM</sup> ointment, 15% is a brown ointment and is supplied in aluminium tubes containing 15 gram ointment per tube.

### **Storage Conditions**

Prior to dispensing to the patient, store refrigerated 2°C to 8°C (36°F to 46°F). After dispensing, store refrigerated or up to 25°C (77°F).

Do not freeze.

Keep out of reach of children

NDC # 10337-450-15

The VEREGEN trademark is used by Bradley Pharmaceuticals, Inc. under license from MediGene AG."

### Manufactured by:

C.P.M. Contract Pharma GmbH & Co. KG Frühlingstrasse 7 D-83620 Feldkirchen-Westerham Germany

#### Manufactured for:



383 Route 46 West Fairfield, NJ 07004 2402 USA

Co-marketed with Kenwood Therapeutics, a division of Bradley Pharmaceuticals, Inc.

### **PATIENT INFORMATION**

Veregen (Kunecatechins)
Ointment, 15%

### Rx Only

Read this leaflet carefully before you start using Veregen Ointment, 15% and each time you refill your prescription. There may be new information. This information does not take the place of your doctor's advice. If you have any questions about Veregen Ointment, 15% or your condition ask your doctor or pharmacist. Only your doctor can prescribe Veregen and determine if it is right for you.

### What is Veregen Ointment, 15%?

Veregen Ointment, 15% is a medicine for skin use only (topical) for the treatment of warts on the outside of the genitals and around the outside of the anus caused by a virus known as the human papilloma virus (HPV) in adults. It is not a treatment for the HPV infection in the vagina, cervix, or inside the anus. Your doctor may recommend examination and screening tests (such as a Pap smear) to look for signs of the HPV infection in these areas.

### Who should not use Veregen Ointment, 15%?

Do not use Veregen Ointment, 15% if you are allergic to an ingredient in Veregen Ointment, 15%. The list of ingredients is at the end of this leaflet.

# What should I tell my doctor before taking Veregen Ointment, 15%?

Tell your doctor about all your health conditions and all the medicines you take including prescription, over-the-counter medicine, vitamins, supplements, and herbals. Be sure to tell your doctor if you are:

- pregnant or planning to become pregnant, as it is not known if Veregen Ointment, 15% can harm your unborn baby.
   Your doctor will determine whether the benefit outweighs the risk.
- breastfeeding, as it is not known if Veregen Ointment, 15% can pass into your milk and if it can harm your baby.
- using any other type of skin product or have open wounds on the area to be treated. Veregen Ointment, 15% should not be used until your skin has healed from other treatments applied to the same area.
- immunocompromised. This means that your immune system cannot fight infections as well as it should.

### How should I use Veregen Ointment, 15%?

- Use Veregen Ointment, 15% only on the area affected exactly as prescribed by your doctor.
- Wash your hands before and after application of Veregen Ointment, 15%. A small amount of the ointment should be applied to all wart using your finger(s), dabbing it on to ensure complete coverage and leaving a thin layer of the ointment on the warts as directed by your doctor.
- Apply Veregen Ointment, 15% three times per day —in the morning, at noontime and in the evening.
- Do not wash off the ointment from the treated area before the next application. When you wash the treatment area or bathe, apply the ointment afterwards.
- Treatment with Veregen Ointment, 15% should be continued until complete clearance of all warts, however no longer than 16 weeks. If your warts do not go away, or if they come back after treatment call your doctor.
- Veregen Ointment, 15% is not a cure for warts on your genitals or around your anus with certainty. New warts may develop during or after treatment, and may need treatment.

# What Should I Avoid While Using Veregen Ointment, 15%?

- Do not apply Veregen Ointment, 15% on open wounds or into the vagina or into the anus.
- Genital warts are a sexually transmitted disease, and you may infect your partner.
- Avoid sexual contact (genital, anal or oral) when Veregen Ointment, 15% is on your genital or perianal skin. If you do choose to have sexual contact, you must wash off the ointment carefully before having protected sexual contact as the ointment may weaken condoms and vaginal diaphragms. Talk to your doctor about safe sex practices.
- Avoid contact with your eyes, nostrils and mouth while ointment is on your finger(s).
- Women using tampons: insert the tampon before applying the ointment. If you need to change your tampon while the ointment is on your skin, avoid getting the ointment into the vagina.
- Uncircumcised men treating warts under the foreskin should retract the foreskin and clean the area daily.
- Do not expose the genital area treated with Veregen Ointment, 15% to sunlight, sunlamps or tanning beds.
- Do not cover the treated area. Loose-fitting undergarments can be worn after applying Veregen Ointment, 15%.
- Veregen Ointment, 15% may stain your light colored clothes and bedding. It is recommended to wear darker colored undergarments while using Veregen Ointment, 15%.

# What are the possible side effects of Veregen Ointment, 15%?

The most common side effects with Veregen Ointment, 15% are local skin and application site reactions including:

- redness
- swelling
- sores or blisters
- burning
- itching
- pain

Many patients experience itching, reddening or swelling on or around the application site during the course of treatment. Some of these side effects could be a sign of an allergic reaction. If you experience open sores or other severe reactions at the locations you applied Veregen, stop treatment and call your doctor right away.

You may experience other side effects of Veregen Ointment, 15%, which are not mentioned here. Ask your doctor or pharmacist for more information.

Patients should be aware that new warts may develop during treatment as Veregen Ointment, 15% is not a cure.

### How should I store Veregen Ointment, 15%?

- Store Veregen Ointment, 15% refrigerated or up to 77°F (25 °C).
- Do not freeze.
- Make sure the cap on the tube is tightly closed.
- Safely throw away Veregen Ointment, 15% tubes that are out of date or are empty.

# Keep Veregen Ointment, 15% and all medicines out of the reach of children.

### General advice about prescription medicines

Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use Veregen Ointment, 15% for a condition for which it was not prescribed. Do not give Veregen Ointment, 15% to other people, even if they have the same symptoms you have. It may harm them. Do not use Veregen Ointment, 15% after the expiration date on the tube.

This leaflet summarizes the most important information about Veregen Ointment, 15%. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about Veregen Ointment, 15% that is written for the doctor.

# What are the ingredients in Veregen Ointment, 15%?

### **Active ingredient:**

A defined green tea extract named Kunecatechins.

### Inactive ingredients:

Isopropyl myristate, white petrolatum, cera alba (white wax), propylene glycol palmitostearate, and oleyl alcohol.

Veregen is a trademark of MediGene AG, D-82152 Planegg/Martinsried, Germany.

Manufactured by: C.P.M. Contract Pharma GmbH & Co. KG, Frühlingstrasse 7, D-83620 Feldkirchen-Westerham, Germany.

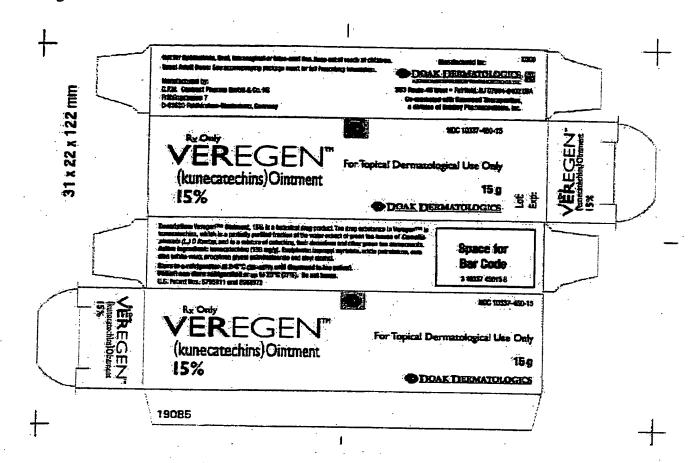
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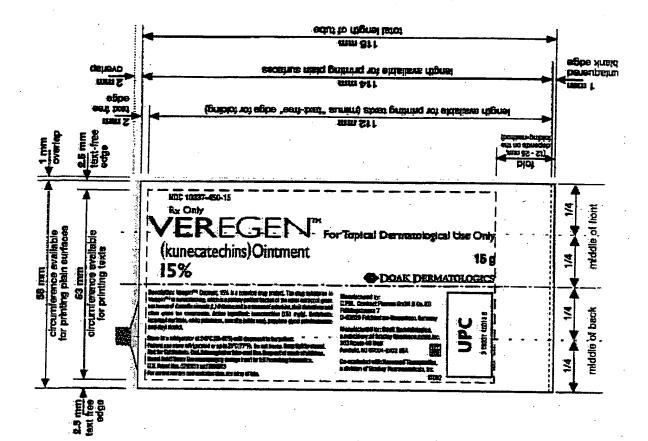
# DOAK DERMATOLOGICS

A SUBSIDIARY OF BRADLEY PHARMACEUTICALS, INC. 383 Route 46 West Fairfield, NJ 07004 2402 USA

Co-marketed with:

KENWOOD THERAPEUTICS
A DIVISION OF BRADLEY PHARMACEUTICALS, INC.





# EXHIBIT 3 APPROVAL LETTER

NDA 21-902



Food and Drug Administration Center for Drug Evaluation and Research Office of Drug Evaluation III

# FACSIMILE TRANSMITTAL SHEET

Date:

To:

MediGene Inc.

Pam Larson, Sr. Минидег, Regulatory Affinirs

Mylccn Ignacio, Regulatory Affairs Assoc.

Phone: (858) 586-2246 Fax: (858) 586-2241

From:

Millie Wright, Project Manager

Phone: (301) 976-2110 Fax: (301) 796-9895

This transmission includes

Opages (including this page)

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# DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration Rockville, MD 20857

NDA 21-902

MediGene, Inc.
Attention: Pam Larson
Sr. Manager, Regulatory Affairs
10660 Scripps Ranch Blvd., Suite 200
San Diego, California 92131

Dear Ms. Larson

Please refer to your new drug application (NDA) dated September 23, 2005, received September 30, 2005, submitted under section 505(b)(1) of the Federal Food, Drug, and Cosmetic Act for Veregen (kunecatechins) Ointment, 15%.

We acknowledge receipt of your submissions dated December 9, 2005; January 6, 16 and 30; February 3, 16 (2), 22 and 28; March 2 and 6; April 17, 18 (2), 20 (2), 21 and 25; May 1, 3, 5, 18 and 26; June 2, 6 and 22; July 11 and 24; August 2, 9, 10, 14 (2), 16 and 18 (2); September 13, 14 (2) and 28; and October 4, 5, 6, 10, 13, 23, 24,26 (2), 27 and 30, 2006.

This new drug application provides for the use of Veregen<sup>TM</sup> (kunecatechins) Ointment, 15%, for the topical treatment of external genital and perianal warts (Condylomata acuminata) in immunocompetent patients 18 years and older.

We completed our review of this application, as amended. It is approved, effective on the date of this letter, for use as recommended in the agreed-upon labeling text, based on the agreed-upon drug specifications, provided in your October 4, 2006 amendment, and the raw material source and manufacturing process described in your NDA.

The final printed labeling (FPL) must be identical to the enclosed labeling (text for the package insert, text for the patient package insert and immediate container and carton labels). Marketing the product with FPL that is not identical to the approved labeling text may render the product misbranded and an unapproved new drug.

Please submit an electronic version of the FPL according to the guidance for industry titled *Providing Regulatory Submissions in Electronic Format - NDA*. Alternatively, you may submit 20 paper copies of the FPL as soon as it is available but no more than 30 days after it is printed. Individually mount 15 of the copies on heavy-weight paper or similar material. For administrative purposes, designate this submission "FPL for approved NDA 21-902." Approval of this submission by FDA is not required before the labeling is used.

Within 21 days of the date of this letter, submit content of labeling [21 CFR 314.50(l)] in structured product labeling (SPL) format, as described at <a href="http://www.fda.gov/oc/datacouncil/spl.html">http://www.fda.gov/oc/datacouncil/spl.html</a> , that is identical in content to the enclosed labeling text. Upon receipt and verification, we will transmit that version to the National Library of Medicine for public dissemination.

All applications for new active ingredients, new dosage forms, new indications, new routes of administration, and new dosing regimens are required to contain an assessment of the safety and effectiveness of the product in pediatric patients unless this requirement is waived or deferred. We are waiving the pediatric study requirement for this application because the number of pediatric patients is limited for this use.

We remind you of your postmarketing study commitment in your submission dated October 26, 2006. The commitment is listed below.

1. A phase 4 study comparing the pharmacokinetics of catechin following topical application of Veregen Ointment, 15%, with that obtained after oral administration of green tea solution. The two-arm study will be designed to enroll into one arm 20 evaluable patients ("completer") with external genital and perianal warts who will be treated 3 times daily for 7 days with Veregen Ointment, 15%, and into the second arm 20 evaluable healthy volunteers, who are to drink a green tea solution 3 times daily for 7 days. Blood samples for the analysis of catechin levels will be obtained prior to and at several sampling time points (over 12 hours) after oral intake of a green teal solution or topical application of Veregen Ointment, 15%, respectively, at Days 1 and 7. The study will be carried out with material from the final commercial source for API to be established in Japan and fulfilling the FDA-defined specifications for the botanical drug substance and drug product.

Protocol to be submitted by July 2007. Study Start Date by January 2008 Final Report Submission by January 2009.

Submit clinical protocols to your IND for this product. Under 21 CFR 314.81(b)(2)(vii) and 314.81(b)(2)(viii), you should include a status summary of each commitment in your annual report to this NDA. The status summary should include expected summary completion and final report submission dates, any changes in plans since the last annual report, and, for clinical studies, number of patients entered into each study. All submissions, including supplements, relating to these protocol", "Postmarketing Study Commitment Protocol", "Postmarketing Study Commitment Final Report", or "Postmarketing Study Commitment Commitment Correspondence."

In addition, submit three copies of the introductory promotional materials that you propose to use for this product. Submit all proposed materials in draft or mock-up form, not final print. Send one copy to the Division of Dermatology and Dental Products and two copies of both the promotional materials and the package insert directly to:

Food and Drug Administration
Center for Drug Evaluation and Research
Division of Drug Marketing, Advertising, and Communications
5901-B Ammendale Road
Beltsville, MD 20705-1266

Please submit one market package of the drug product when it is available.

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314.80 and 314.81).

The MedWatch-to-Manufacturer Program provides manufacturers with copies of serious adverse event reports that are received directly by the FDA. New molecular entities and important new biologics qualify for inclusion for three years after approval. Your firm is eligible to receive copies of reports for this product. To participate in the program, please see the enrollment instructions and program description details at <a href="https://www.fda.gov/medwatch/report/mmp.htm">www.fda.gov/medwatch/report/mmp.htm</a>.

If you have any questions, call Millie Wright, Project Manager at (301) 796-2110.

Sincerely,

(See appended electronic signature page)
Daniel Shames, M.D.
Deputy Division Director (Acting)
Office of Drug Evaluations III
Center for Drug Evaluation and Research

Enclosure

### **VEREGEN<sup>TM</sup>**

(Kunecatechins)

Ointment, 15%

# Rx Only

# For Topical Dermatologic Use Only

Not for Ophthalmic, Oral, Intravaginal, or Intra-anal Use

# DESCRIPTION

Veregen<sup>TM</sup> is a botanical drug product for topical use. The drug substance in Veregen is Kunecatechins, which is a partially purified fraction of the water extract of green tea leaves from Camellia sinensis (L.) O Kuntze, and is a mixture of catechins and other green tea components. Catechins constitute 85 to 95% (by weight) of the total drug substance which includes more than 55% of Epigallocatechin gallate (EGCg), other catechin derivatives such as Epicatechin (EC), Epigallocatechin (EGC), Epicatechin gallate (ECg) and some additional minor catechin derivatives i.e. Gallocatechin gallate (GCg), Gallocatechin (GC), Catechin gallate (Cg), and Catechin (C). In addition to the known catechin components, it also contains gallic acid, caffeine, and theobromine which together constitute about 2.5% of the drug substance. The remaining amount of the drug substance contains undefined botanical constituents derived from green tea leaves.

The structural formulae of catechins are shown below.

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# General Structure of Catechins

Each gram of the ointment contains 150 mg of Kunecatechins in a water free ointment base consisting of isopropyl myristate, white petrolatum, cera alba (white wax), propylene glycol palmitostearate, and

# CLINICAL PHARMACOLOGY

**Pharmacodynamics** 

The mode of action of Veregen<sup>TM</sup> Ointment, 15% involved in the clearance of genital and perianal warts is unknown. In vitro, Kunecatechins had anti-oxidative activity; the clinical significance of this

# **Pharmacokinetics**

The pharmacokinetics of topically applied Veregen Ointment has not been sufficiently characterized at this time. However, data suggest that systemic exposure to catechins after repeated topical application of Veregen Ointmen: 15% is likely to be less than observed after a single oral intake of 400ml green

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# **CLINICAL STUDIES**

Two Phase 3 randomized, double-blind, vehicle-controlled studies were performed to investigate the safety and efficacy of Veregen Ointment in the treatment of immunocompetent patients 18 years of age and older with external genital and perianal warts. The subjects applied the ointment 3 times daily for up to 16 weeks or until complete clearance of all warts (baseline and new warts occurring during treatment).

Over both studies the median baseline wart area was 51 mm<sup>2</sup> (range 12 to 585 mm<sup>2</sup>), and the median baseline number of warts was 6 (range 2 to 30).

The primary efficacy outcome measure was the response rate defined as the proportion of patients with complete clinical (visual) clearance of all external genital and perianal warts (baseline and new) by week 16, presented in Tables 1 and 2 for all randomized subjects dispensed medication.

Table 1: Efficacy by Region

Table 2. Efficacy by Gender

	<u> </u>	- Encacy by Gender	
All Countries	Complete	Males	Complete
(includes the United States)	Clearance		Clearance
Veregen <sup>TM</sup> 15% (N = 397) Vehicle (N = 207) United States	213 (53.6%) 73 (35.3%)	Veregen <sup>TM</sup> 15% (N = 205) Vehicle (N = 118)	97 (47.3%) 34 (28.8%)
Veregen <sup>TM</sup> 1:5% (N=21)	5 (23.8%)	Veregen <sup>TM</sup> 15% (N = 192)	116 (60.4%)
Vehicle (N=:)	0 (0.0%)	Vehicle (N = 89)	39 (43.8%)

Median time to complete wart clearance was 16 weeks and 10 weeks, respectively, in the two phase 3 clinical trials.

The incidence rate of recurrence of external genital and perianal warts after treatment in patients with complete clearance is unknown.

# INDICATION AND USAGE

Veregen is indicated for the topical treatment of external genital and perianal warts (Condylomata acuminata) in immunocompetent patients 18 years and older.

# **CONTRAINDICATIONS**

Veregen<sup>TM</sup> is contraindicated in individuals with a history of sensitivity reactions to any of the components of the ointment. In case of hypersensitivity, treatment should be discontinued.

#### **WARNINGS**

Veregen<sup>TM</sup> has not been evaluated for the treatment of urethral, intra-vaginal, cervical, rectal, or intraanal human papillon: a viral disease and should not be used for the treatment of these conditions.

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# **PRECAUTIONS**

#### General

Use of Veregen<sup>TM</sup> on open wounds should be avoided.

The safety and efficacy of Veregen Im in immunosuppressed patients have not been established.

Safety and efficacy have not been established for Veregen in the treatment of external genital and perianal warts beyond 16-weeks or for multiple treatment courses.

Patients should be advised to avoid exposure of the genital and perianal area to sun/UV-light as Veregen<sup>TM</sup> has not been tested under these circumstances.

# **Information for Patients**

# General Information

Patients using Veregen should receive the following information and instructions:

- 1. This medication is only to be used as directed by a physician. It is for external use only. Eye contact should be avoided as well as application into the vagina or anus.
- 2. It is not necessary to wash off Veregen prior to the next application. When the treatment area is washed or a bath is taken, the ointment should be applied afterwards.
- 3. It is common for patients to experience local skin reactions such as erythema, erosion, edema, itching, and burning at the site of application. Severe skin reactions can occur and should be promptly reported to the healthcare provider. Should severe local skin reaction occur, the ointment should be removed by washing the treatment area with mild soap and water and
- 4. Sexual (genital, anal or oral) contact should be avoided while the ointment is on the skin, or the ointment should be washed off prior to these activities. Veregen may weaken condoms and vaginal diaphragms. Therefore the use in combination with Veregen is not recommended.
- 5. Female patients using tampons should insert the tampon before applying the ointment. If the tampon is changed while the ointment is on the skin, accidental application of the ointment into
- 6. Veregen TM may stain clothing and bedding.
- 7. Veregen is not a cure and new warts might develop during or after a course of therapy. If new warts develop during the 16 -week treatment period, these should also be treated with
- 8. The effect of Veregen<sup>TM</sup> on the transmission of genital/perianal warts is unknown.
- 9. Patients should be advised to avoid exposure of the genital and perianal area to sun/UV light as Veregen<sup>TM</sup> has not been tested under these circumstances.
- 10. The treatment area should not be bandaged or otherwise covered or wrapped as to be
- 11. Uncircumcised males treating warts under the foreskin should retract the foreskin and clean

# Carcinogenesis, Mutagenesis, Impairment of Fertility

The Maximum Recommended Human Dose (MRHD) of Veregen<sup>TM</sup> Ointment, 15% was set at three times daily topical administration of 250 mg, 750 mg total, containing 112.5 mg Kunecatechins for the animal multiple of human exposure calculations presented in this labeling. Dose multiples were calculated based on the human equivalent dose (HED).

In an oral (gavage) carcinogenicity study, Kunecatechins was administered daily for 26 weeks to p53 transgenic mice at doses up to 500 mg/kg/day (22-fold MRHD). Treatment with Kunecatechins was not associated with an increased incidence of either neoplastic or non-neoplastic lesions in the organs and tissues examined. Veregen Ointment, 15% has not been evaluated in a dermal carcinogenicity

Kunecatechins was negative in the Ames test, in vivo rat micronucleus assay, UDS test, and transgenic mouse mutation assay, but positive in the mouse lymphoma mutation assay.

Daily vaginal administration of Veregen<sup>TM</sup> Ointment, 15% to rats from Day 4 before mating and throughout mating until Day 17 of gestation did not cause adverse effects on mating performance and fertility at doses up to 0.15 mL/rat/day. This dose corresponds to approximately 150 mg/rat/day (8-fold

# Pregnancy Category: C

Embryo-fetal development studies were conducted in rats and rabbits using intravaginal and systemic routes of administration, respectively. Oral administration of Kunecatechins during the period of organogenesis (gestational Days 6 to 15 in rats or 6 to 18 in rabbits) did not cause treatment related effects on embryo-letal development or teratogenicity at doses of up to 1,000 mg/kg/day (86-fold

In the presence of maternal toxicity (characterized by marked local irritation at the administration sites and decreased body weight and food consumption) in pregnant female rabbits, subcutaneous doses of 12 and 36 mg/kg/day of Kunecatechins during the period of organogenesis (gestational Days 6 to 19) resulted in corresponding influences on fetal development including reduced fetal body weights and delays in skeletal ossification. No treatment related effects on embryo-fetal development were noted at 4 mg/kg/day (0.7-fold MRHD). There was no evidence of teratogenic effects at any of the doses

A combined fertility / embryo-fetal development study using daily vaginal administration of Veregen M Ointment, 15% to rats from Day 4 before mating and throughout mating until Day 17 of gestation did not show treatment-related effects on embryo-fetal development or teratogenicity at doses

A pre- and post-natal development study was conducted in rats using vaginal administration of Veregen<sup>TM</sup> Ointment, 15% at doses of 0.05, 0.10 and 0.15 mL/rat/day from Day 6 of gestation through parturition and lactation. The high and intermediate dose levels of 0.15 (8-fold MRHD) and 0.10 mL/rat/day resulted in an increased mortality of the F<sub>0</sub> dams, associated with indications of parturition mplications. The high dose level of 0.15 mL/rat/day also resulted in an increased incidence of stillbirths. There were no other treatment-related effects on pre- and post-natal development, growth, reproduction and fertility at any dose tested.

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There are no adequate and well-controlled studies in pregnant women. Veregen<sup>TM</sup> Ointment, 15% should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

# Nursing Mothers

It is not known whether topically applied Veregen<sup>TM</sup> is excreted in breast milk.

### Pediatric Use

Safety and efficacy in pediatric patients have not been established.

### Geriatric Use

Seven patients (1.4%), older than 65 years of age were treated with Veregen<sup>TM</sup> in clinical studies. This, however, is an insufficient number of subjects to determine whether they respond differently from younger subjects.

# ADVERSE REACTIONS

# ADVERSE EVENTS / LOCAL SKIN REACTIONS

In Phase 3 clinical trials, a total of 397 subjects received Veregen<sup>TM</sup> Ointment, 15% three times per day topical application for the treatment of external genital and perianal warts for up to 16 weeks.

Serious local adverse events of pain and inflammation were reported in two subjects (0.5%), both

In clinical trials, the incidence of local adverse events leading to discontinuation or dose interruption (reduction) was 5% (19/397). These included the following events: application site reactions (local pain, erythema, vesicles, skin erosion/ulceration), phimosis, inguinal lymphadenitis, urethral meatal stenosis, dysuria, genital herpes simples, vulvitis, hypersensitivity, pruritus, pyodermitis, skin ulcer, erosions in the wrethral meatus, and superinfection of warts and ulcers.

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug

Local and regional reactions (includes adenophathy) occurring at >1% in the treated group are

Table 3: Local and Regional Adverse Reactions During Treatment (% Subjects)

Treatment (% Subjects)		
	Veregen	Vehicle
Frank	(N=397)	(N=207)
Erythema	70	32
Pruritus	69	45
Burning	67	31
Pain/discomfort	56	14
Erosion/Ulceration	49	10
Edema	45	10
Induration	35	~ -
Rash vesicular	20	11
Regional Lymphadenitis	3	6
Desquamation	5	1
Discharge	3.	<1
Bleeding	3. 2	<1
Reaction	_	<1
Scar	2	• 0
Irritation	. I	0
Rash	1	0
	1	0

A total of 266/39? (67%) of subjects in the Veregen, 15% group had either a moderate or a severe reaction that was considered probably related and of these 120 (30%) subjects had a severe reaction. Severe reactions occurred in 37% (71/192) of women and in 24% (49/205) of men. The percentage of subjects with at least one severe, related adverse event was 26% (86/328) for subjects with genital warts only, 42% (19/45) in subjects with both genital and perianal warts and 48% (11/23) of subjects

Phimosis occurred in 3% of uncircumcised male subjects (5/174) treated with Veregen and in 1%

The maximum mean severity of erythema, erosion, edema and induration was observed by week 2 of

Less common local adverse events included urethritis, perianal infection, pigmentation changes, dryness, eczema, hyperesthesia, necrosis, papules, and discoloration. Other less common adverse events included cervical dysplasia, pelvic pain, cutaneous facial rash and staphylococcemia.

In a dermal sensitization study of Veregen ointment in healthy volunteers, hypersensitivity (type IV) was observed in 5 out of 209 subjects (2.4%) under occlusive conditions.

# **OVERDOSAGE**

overdosage with Veregen TM has not been reported.

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# DOSAGE AND ADMINISTRATION

Veregen<sup>™</sup> Ointment, 15% is to be applied three times per day to all external genital and perianal

It is recommended to wash the hands before and after application of Veregen<sup>TM</sup> About an 0.5 cm strand of the Vereigen M Ointment, 15% should be applied to each wart using the finger(s), dabbing it on to ensure complete coverage and leaving a thin layer of the ointment on the warts.

It is not necessary to wash off the ointment from the treated area prior to the next application.

Treatment with Veregen<sup>TM</sup> should be continued until complete clearance of all warts, however no

Local skin reactions (e.g. erythema) at the treatment site are frequent. Nevertheless, treatment should be continued when the severity of the local skin reaction is acceptable.

# HOW SUPPLIED

Veregen<sup>TM</sup> ointment, 15% is a brown ointment and is supplied in aluminium tubes containing 15 gram ointment per tube.

# Storage Conditions

Prior to dispensing to the patient, store refrigerated 2°C to 8°C (36°F to 46°F). After dispensing, store Do not freeze.

# Keep out of reach of children

NDC # 10337-450-15

The VEREGEN trademark is used by Bradley Pharmaceuticals, Inc. under license from MediGene AG. "

# Manufactured by:

C.P.M. Contract Pharma GmbH & Co. KG Frühlingstrasse 7 D-83620 Feldkirchen-Westerham Germany

### Manufactured for:



383 Route 46 West

Fairfield, NJ 07004 2402 USA

Co-marketed with Kenwood Therapeutics, a division of Bradley Pharmaceuticals, Inc.

# PATIENT INFORMATION

Veregen (Kunecatechins) Ointment, 15%

### Rx Only

Read this leastlet carefully before you start using Veregen Ointment, 15% and each time you refill your prescription. There may be new information. This information does not take the place of your doctor's advice. If you have any questions about Veregen Ointment, 15% or your condition ask your doctor or pharmacist. Only your doctor can prescribe Veregen and determine if it is right for you.

# What is Veregen Ointment, 15%?

Veregen Ointment, 15% is a medicine for skin use only (topical) for the treatment of warts on the outside of the genitals and around the outside of the anus caused by a virus known as the human papilloma virus (FIPV) in adults. It is not a treatment for the HPV infection in the vagina, cervix, or inside the anus. Your doctor may recommend examination and screening tests (such as a Pap smear) to look for signs of the HPV infection in these areas.

# Who should not use Veregen Ointment, 15%?

Do not use Veregen Ointment, 15% if you are allergic to an ingredient in Veregen Ointment, 15%. The list of ingredients is at the end of this leaflet.

# What should I tell my doctor before taking Veregen Ointment, 15%?

Tell your doctor about all your health conditions and all the medicines you take including prescription, over-the-counter medicine, vitamins, supplements, and herbals. Be sure to tell your doctor if you are:

- pregnant or planning to become pregnant, as it is not known if Veregen Ointment, 15% can Your doctor will determine whether the benefit outweighs the risk.
- breastfeeding, as it is not known if Veregen Ointment, 15% can pass into your milk and if it
- using any other type of skin product or have open wounds on the area to be treated. Veregen Ointment, 15% should not be used until your skin has healed from other treatments
- immunocompromised. This means that your immune system cannot fight infections as well

### How should I use Veregen Ointment, 15%?

- Use Veregen Ointment, 15% only on the area affected exactly as prescribed by your doctor.
- Wash your hands before and after application of Veregen Ointment, 15%. A small amount of the oir tment should be applied to all wart using your finger(s), dabbing it on to ensure complete coverage and leaving a thin layer of the ointment on the warts as directed by your doctor.
- Apply Veregen Ointment, 15% three times per day —in the morning, at noontime and in the evening.
- Do not wash off the ointment from the treated area before the next application. When you
  wash the treatment area or bathe, apply the ointment afterwards.
- Treatment with Veregen Ointment, 15% should be continued until complete clearance of all warts, however no longer than 16 weeks. If your warts do not go away, or if they come back after treatment call your doctor.
- Veregen Cintment, 15% is not a cure for warts on your genitals or around your anus with certainty. New warts may develop during or after treatment, and may need treatment.

## What Should I Avoid While Using Veregen Ointment, 15%?

- Do not apply Veregen Ointment, 15% on open wounds or into the vagina or into the anus.
- Genital wants are a sexually transmitted disease, and you may infect your partner.
- Avoid sexual contact (genital, anal or oral) when Veregen Ointment, 15% is on your genital or
  perianal skin. If you do choose to have sexual contact, you must wash off the ointment
  carefully before having protected sexual contact as the ointment may weaken condoms and
  vaginal diaphragms. Talk to your doctor about safe sex practices.
- Avoid contact with your eyes, nostrils and mouth while ointment is on your finger(s).
- Women using tampons: insert the tampon before applying the ointment. If you need to change
  your tampon while the ointment is on your skin, avoid getting the ointment into the vagina.
- Uncircumcised men treating warts under the foreskin should retract the foreskin and clean the area daily.
- Do not expose the genital area treated with Veregen Ointment, 15% to sunlight, sunlamps or tanning beds.
- Do not cover the treated area. Loose-fitting undergarments can be worn after applying Veregen Ointment, 15%.
- Veregen Ointment, 15% may stain your light colored clothes and bedding. It is recommended
  to wear darker colored undergarments while using Veregen Ointment, 15%.

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### What are the possible side effects of Veregen Ointment, 15%?

The most common side effects with Veregen Ointment, 15% are local skin and application site redness

- swelling
- sores or blisters
- burning
- itching
- pain

Many patients experience itching, reddening or swelling on or around the application site during the course of treatment. Some of these side effects could be a sign of an allergic reaction. If you experience open sores or other severe reactions at the locations you applied Veregen, stop treatment and call your doctor right away.

You may experience other side effects of Veregen Ointment, 15%, which are not mentioned here. Ask your doctor or pharmacist for more information.

Patients should be aware that new warts may develop during treatment as Veregen Ointment, 15% is

### How should I store Veregen Ointment, 15%?

- Store Veregen Ointment, 15% refrigerated or up to 77°F (25 °C).
- Do not freeze.
- Make sure the cap on the tube is tightly closed.
- Safely throw away Veregen Ointment, 15% tubes that are out of date or are empty.

## Keep Veregen Ointment, 15% and all medicines out of the reach of children.

### General advice about prescription medicines

Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use Veregen Ointment, 15% for a condition for which it was not prescribed. Do not give Veregen Ointment, 15% to other people, even if they have the same symptoms you have. It may harm them. Do not use Veregen Ointment, 15% after the expiration date on the tube.

This leaflet summarizes the most important information about Veregen Ointment, 15%. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information. about Veregen Ointment, 15% that is written for the doctor.

## What are the ingredients in Veregen Ointment, 15%?

#### Active ingredient:

A defined green tea extract named Kunecatechins.

#### inactive ingredients:

Isopropyl myristate, white petrolatum, cera alba (white wax), propylene glycol palmitostearate, and

Veregen is a trademark of MediGene AG, D-82152 Planegg/Martinsried, Germany.

Manufactured by: C.P.M. Contract Pharma GmbH & Co. KG, Frühlingstrasse 7, D-83620 Feldkirchen-Westerham, Germany.

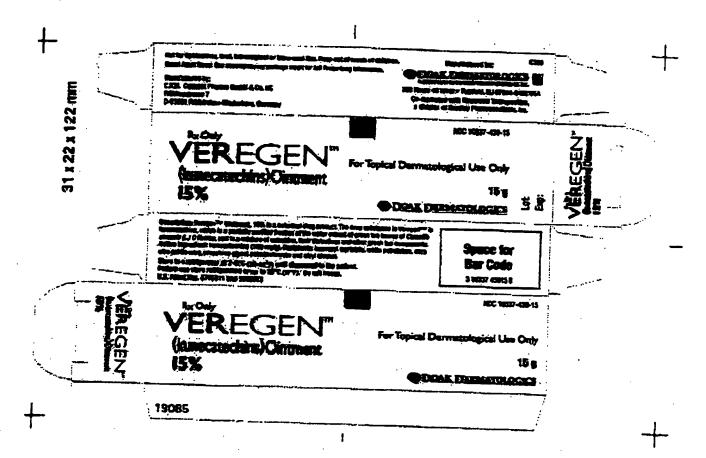
Manufactured for:

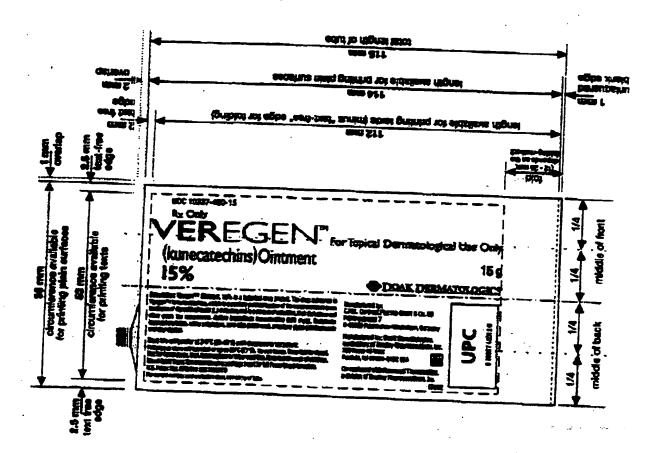
## DOAK DERMATOLOGICS ASDESDARY OF BRADLEY PHARMACEUTICALS, INC.

383 Route 46 West Fairfield, NJ 07004 2402 USA

Co-marketed with:

KENWOOD THERAPEUTICS
A DIVISION OF BRADLEY PHARMACEUTICALS, INC.





This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

**/s/** 

Daniel A. Shames 10/31/2005 11:12:51 AM

## EXHIBIT 4 RECORDED ASSIGNMENT

#### ASSIGNMENT

In consideration of value received, I, having a residence and post office address as stated below next to my name, the e inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of an invention described in an application for United States patent entitled:

METHODS FOR TREATING HYPERPLASIA

sell and assign to 1) Cancer Institute (Hospital), Chinese Academy of Medical Sciences;

2) Mitsui Norin Co., Ltd.

a corporation of 1) People's Republic of China; and 2) Japan having a business address at

1) Panjiayuan No. 17, Chaoyang District, Beijing 100021, People's Republic of China

2) 1-20, Nihonbashimuromachi 3-chome, Chuo-ku, Tokyo, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent executed concurrently herewith;

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant to any attorney member of the following law firm the power to insert on this Assignment the Serial Number and filing date of said application when known.

**SERIAL NO.:** 

FILING DATE:

Frishauf, Holtz, Goodman, Langer & Chick, P.C., 767 Third Avenue - 25th Floor, New York, N.Y. 10017-2023.

**ADDRESS** DATE INVENTOR: SIGNATURE Address: Date: Sign: Cancer Institute (Hospital), March 27, 1998 Chinese Academy of Medical Sciences Panjiayuan No. 17, Chaoyang District, Beijing 100021, People's Republic of China Witness: Type: Shu Jun Cheng Address: Sign: Cancer Institute (Hospital), Chinese Academy of Medical Sciences March 27, 1998 Panjiayuan No. 17, Chaoyang District, Beijing 100021, People's Republic of China Witness: Type: De Chang Wang Address: Sign: 2-7. Minamisurugadai 2-chome, Fujieda-shi, Shizuoka-ken, Japan March 30, 1998 Witness: Type: Yukihiko Hara

NOTES: MUST BE DATED.

WITNESS DESIRABLE.

LEGALIZATION NOT REQUIRED.

## EXHIBIT 5 PATENT



#### United States Patent [19]

#### Cheng et al.

#### [11] Patent Number:

5,968,973

#### [45] Date of Patent:

Oct. 19, 1999

[54]	METHOD	FOR TREATING HYPERPLASIA
[75]	Inventors:	Shu Jun Cheng; De Chang Wang, both of Beijing, China; Yukihiko Hara, Fujieda, Japan
[73]	Assignees:	Cancer Institute (Hospital), Chinese

[73] Assignees: Cancer Institute (Hospital), Chinese
Academy of Medical Sciences, Beijing,
China; Mitsui Norin Co., Ltd., Tokyo,
Japan

[21] Appl. No.: 09/056,378

[22] Filed: Apr. 7, 1998

#### Related U.S. Application Data

[63]	Continuation-in-part of application No. 08/835,920, Apr. 10,
	1997, Pat. No. 5,795,911.

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[30]	Foreign A	application Priori	ty Data
Nov.	18, 1996 [JP]	Japan	8-321195
[51]	Int. Cl.6	·	A61K 31/35
[52]	U.S. Cl		514/456
[58]	Field of Searc	b	514/456

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Primary Examiner—Raymond Henley, III

Attorney, Agent, or Firm—Frishauf, Holtz, Goodman,
Langer & Chick, P.C.

#### [57] ABSTRACT

A method for a treatment of hyperplasia caused by papilloma virus, such as for treating *Condyloma acuminata* which comprises administering tea catechin. Tea catechins do not involve the risk of side-effects and may be easily applied to or inserted in the infected area by the patients themselves.

22 Claims, No Drawings

#### FIELD OF THE INVENTION

The present invention relates to methods for treating the hyperplasia caused by a papilloma virus, such as *Condyloma acuminata* or genital warts which involves administering an <sup>10</sup> extract of tea containing catechins (*camellia sinensus*).

#### BACKGROUND OF THE INVENTION

Papilloma viruses comprise a DNA virus which infects epithelial cells of mammals and which causes uncontrolled cell replication. There are many types of papilloma virus which infect human and animal species, but they all can infect the basal epithelial cells and persist in an episome or as DNA integrated into the host genome. The mechanism by which they cause tissue growth may be related to the E4 and E5 proteins they all produce in related forms, which appear to interact with p54 and other host proteins which control the cell cycle. The effects of papilloma virus which have been described include genital warts or *Condylomata acuminata*, common warts, plantar warts, bovine papillomas, and cervical intra-epithelial neoplasia in women.

The detection of human papilloma virus ("HPV") in Condyloma acuminata involve a method of taking a tissue sample or a smear from the infected area and determining the DNA of the virus. According to this method, the detection rate is almost 100%.

Types HPV6 and 11 of the virus are the ones most commonly detected and because HPV16 has been detected in malignant squamous cell carcinoma from cancer of the penis, cancer of the cervix and Condyloma acuminata, there is a strong possibility that HPV16 is related to the malignancy of Condyloma acuminata.

Means for the treatment of Condyloma acuminata caused by human papilloma virus which have been tried include physical means such as surgical excision, electrocauterization, cryosurgery, laser therapy, etc., and medications such as applications of Podophyllin, 5-Fluorouracil, Bleomycin, Interferon, Imiquimod, etc., which are presently available. However, surgical treatment is distressing for the patient, considering the site of infection, and with topical applications there is the concern of side-effects. The aforesaid medications work either by cytotoxic tissue destruction or by enhancing the cellular immune response by causing local inflammation. 50 Accordingly, a conclusive treatment has heretofore not been available.

Condyloma acuminata has a high rate of recurrence, and a complete cure is difficult unless treated constantly. Therefore, treatment which has a high degree of safety and 55 is convenient strongly desired.

A treatment of Condyloma acuminata or other diseases caused by papilloma virus is desired which would be easy for the patient to take. For example, it would desirable to have a medication which can be applied to the affected area 60 by the patients themselves and which would provide good results after a relatively short period of use and have no side-effects.

#### SUMMARY OF THE INVENTION

The present inventors searched for a natural substance which has no side-effects, may be safely applied for a long 2

period of time by the patients themselves and is notably effective. After extensive testing, the inventors discovered that catechin, a component of tea which is an everyday beverage, is effective for treating hyperplasia caused by papilloma virus, and thus the present invention was developed.

Accordingly, the present invention relates to a method for the treatment of hyperplasia caused by papilloma virus, comprising administering to a human an effective antihyperplasia amount of a tea extract containing catechin as a main component. More specifically, the present invention concerns the treatment of *Condyloma acuminata*, common warts, plantar warts and cervical infra-epithelial neoplasia by local administration i.e., topical administration, or oral administration, or a combination of topical and oral administration of tea catechin.

### DETAILED DESCRIPTION OF THE INVENTION

The tea catechin for use in the present invention is shown below in the following formula I

wherein R1 represents H or OH and R2 represents H or

The tea catechins are more specifically, epicatechin, epicatechin gallate, epigallocatechin gallate, gallocatechin, etc. (including derivatives thereof). These catechins can be used singly, or two or more may be mixed together. Out of these it is particularly desirable to have (-)-epigallocatechin gallate as a main component. Examples of tea catechin compositions for use in the present invention include the following: POLYPHENON 100™ (produced by Mitsui Norin Co.; Composition: (+)-gallocatechin 1.44%, (-)-epicatechin 5.81%, (-)-epigallocatechin 17.57%, (-)-epicatechin gallate 12.51%, (-)-epigallocatechin gallate 53.90w; or POLYPHENON E™ (produced by Mitsui Norin Co.; Composition: (-)-epicatechin 10.8%, (-)-epigallocatechin 9.2%, (-)-epicatechin gallate 6.5%, (-)-epigallocatechin gallate 54.8%, (-)-gallocatechin gallate 4.0%).

The tea catechin or tea catechin composition for the treatment of, for example, Condyloma acuminata, of the present invention could be used, for example, in the form of an ointment such as a cream, a jelly, or an emulsion; or in the form of a suppository such as a capsule, and usually the tea catechin component is combined with an excipient, an extending agent, an emulsifier, a dispersing agent, etc. Vaseline is suitable as a base for the ointment. For the ointment, the content of tea catechin should be between 2–20% by weight, preferably between 12–18% by weight,

55

and more preferably 15% by weight. In the case of a suppository, the content of tea catechin should be 50-500 mg/capsule, preferably 200-300mg/capsule, or more preferably 250mg/capsule.

A typical usage example for the ointment is to apply the 5 ointment directly to the infected area of the external genital organs or vagina, a vaseline cream containing 2-20% by weight catechin, from once to several times everyday for a period of 1-2 months. A typical usage example for the suppository in the case where, for example, the infected area 10 is the cervix or the vagina, is to insert a capsule containing 50-500mg tea catechin, from once to several times everyday for a period of 1-2 months.

There is no danger of side-effects from the use of tea catechins for the treatment of, for example, Condyloma 15 acuminata, since the tea catechins are natural substances derived from tea, which is commonly consumed regularly, and it may be taken for long periods of time. Moreover this medication may be easily applied to or inserted in the infected area by the patients themselves. The composition of 20 the present invention for a treatment of, for example, Condyloma acuminata, has a very high potential for practical use.

The tea catechin compounds utilized in the present invention can be administered orally in the form of tablets, capsules, granules, powders or syrups. The pharmaceutical 25 preparations for oral administration can be produced in a conventional manner using adjuvants that are generally known in the art, such as excipients, binders, disintegrating agents, lubricants, stabilizers, corrigents and the like. Although the dosage may vary depending upon the symptoms and age of the patient, the nature and severity of the disease or disorder, in the case of oral administration to an adult human patient, the tea catechin compounds used in the present invention may normally be administered at a total daily dose of from 100 to 2,000 mg, either in a single dose, 35 or in divided doses, for example, two or three times a day.

#### **EXAMPLES**

The present invention will be explained in more detail with reference to the following examples which are in no way meant to limit the scope of the invention.

#### Test Example 1

An ointment consisting essentially of a vaseline based vaginal lubricant containing, as the main component, tea catechin (Trade name: "POLYPHENON 100", produced by Mitsui Norin Co. Ltd., its main component: (-)-epigallocatechin gallate) was applied to the cervix of healthy mice (50 mice in a group) in catechin dosages of 8mg, 15mg, and 38mg for a period of 7 consecutive days. After this time, pathological and histological examinations were carried out and it was determined that except for a mild inflammatory reaction in the cervix of the group of mice administered with the 38mg dose, no toxic effect was observed.

#### Example 1

Clinical tests of the present invention were carried out at the Cancer Institute, Chinese Academy of Medical Sciences in Beijing, China, with a group of 11 women who had been diagnosed with HPV-infected Condyloma acuminata. All patients were confirmed to have Condyloma in the vulva (external genital organs) and cervix according to clinical examination, cytologic, colposcopic and pathologic tests.

Warts were from 0.2 to 2cm in diameter.

Tests were carried out on these 11 patients using either a vaseline-based ointment containing 10 wt % of tea catechin

(Trade name: "POLYPHENON 100", produced by Mitsui Norin co., Ltd., crude catechin content is about 90 weight % and its main component is (-)-epigallocatechin gallate) or using a suppository containing 300 mg/capsule of the above tea catechin. Applying the ointment to the external genital organs and applying the suppository to the cervix, the treatments of the present invention were used continuously once a day for about two months.

During the period of treatment, examinations and colposcopic tests of the infected areas were carried out. Results obtained are shown in Table 1. As shown in Table 1 hereinbelow, when the infected area completely disappeared it was judged to be cured, when 50% or more disappeared, it was judged to be improved and when less than 50% or nothing disappeared, it was judged that there was no effect.

TABLE 1

Infected Area	No. of Patients	Cured	Improved	No Effect	_
External genital organs	9	4	3	2	
Cervix	2	1	0	· 1 ·	

As is evident from Table 1, 7 cases out of 9 (77.8%) of Condyloma acuminata of the external genital organ showed a clear effect (being either cured or improved). In one case of the cervical infection, the tumor completely disappeared, and thus was cured. During this period, apart from some patients who experienced slight pain or inflammation in the infected area and a few other patients who felt some itching, there were no obvious side-effects observed.

#### Example 2

The clinical tests at the Cancer Institute, Chinese Academy of Medical Sciences in Beijing, China were conducted in the same manner as in Example 1, using a vaseline-based ointment containing 15 weight % tea catechin on external and internal warts, with a group of 33 female patients diagnosed with HPV-infected Condyloma acuminata. In this group, 8 of the patients were infected in two areas. Results are shown in Table 2 hereinbelow. As is evident from Table 2, 92% of Condyloma acuminata of the external genital organs and 70% of the vaginal Condyloma acuminata were cured or improved, and in the case of the cervical Condyloma acuminata, all cases were cured. 25 cases out of 41 cases showed were cured, and the curing ratio was 61%.

TABLE 2

Infected Area	No. of Patients	Cured	Improved	No Effect	
External genital organs	26	18	6	2	
Vagina	10	2	5	3	
Cervix .	5	5	0	0	
Total (%)	41	25 (61.0)	11 (26.8)	5 (12.2)	

#### Example 3

The clinical tests at the Cancer Institute, Chinese Academy of Medical Sciences in Beijing, China were conducted in the same manner as in Example 2, except that the ointment contained 15 weight % of a different tea extract ("POLYPHENOL E", produced by Mitsui Norin Co., Ltd.,

which is similar to "POLYPHENOL 100"; the crude catechin content of "POLYPHENOL E" is about 82 weight %, and its main component is (-)-epigallocatechin gallate) with a group of 22 female patients diagnosed with HPV-infected Condyloma acuminata. Results are shown in Table 3 hereinbelow. As is evident from Table 3, out of 16 cases of Condyloma acuminata of the external genital organs, 7 were cured and 6 improved; a total of 13 (81.3%) being effected. In the case of Condyloma acuminata of the vagina, out of 6 cases 3 were cured and 2 were improved; a total of 83.3% was confirmed to be effected.

TABLE 3

Infected Area	No. of Patients	Cured	Improved	No Effect
External genital organs	16	7	6	3
Vagina Vagina	6	3	<u> </u>	1
Total (%)	22	10 (45.5)	8 (36.4)	4 (18.2)

The entire disclosure of Japanese Patent Application No. 8-321195 filed on Nov. 18, 1996, including the specification, claims and summary, is incorporated herein by reference in its entirety. to pically applied to an inference of infected area is the vagina.

What is claimed is:

- 1. A method for treating hyperplasia caused by a papilloma virus comprising administering to a human in need thereof a composition which comprises a tea catechin in an effective anti-hyperplasia amount.
- 2. The method according to claim 1, wherein tea catechin comprises (-)-epigallocatechin gallate.
- The method according to claim 1, wherein said composition is in the form of an ointment.
- 4. The method according to claim 2, wherein said composition is in the form of an ointment.
- 5. The method according to claim 1, wherein said composition is in the form of a suppository.

- The method according to claim 2, wherein said composition is in the form of a suppository.
- 7. The method of claim 3, wherein the tea catechin is in an amount of 2 to 20% by weight.
- 8. The method of claim 3, wherein the tea catechin is in an amount of 5 to 20% by weight.
- 9. The method of claim 3, wherein the tea catechin is in an amount of 15% by weight.
- 10. The method of claim 8, wherein the composition comprises vaseline as a base to form a cream.
- 11. The method of claim 10, wherein the cream is topically applied to external genital organs.
- 12. The method of claim 5, wherein the suppository contains 50 to 500 mg by weight of the tea catechin.
  - 13. The method of claim 5, wherein the suppository contains 200 to 300 mg by weight of the tea catechin.
  - 14. The method of claim 5, wherein the suppository contains 250 mg of the tea catechin.
  - 15. The method according to claim 13, wherein the suppository is applied to the vagina of a human.
  - 16. The method of claim 1, wherein the composition is topically applied to an infected area on a human.
  - 17. The method according to claim 16, wherein the infected area is the vagina
  - 18. The method according to claim 16, wherein the infected area is an external genital organ.
  - 19. The method according to claim 16, wherein the infected area is the cervix.
  - 20. The method according to claim 1, wherein the papilloma virus causes *Condyloma acuminata*.
  - 21. The method according to claim 1, wherein the papilloma virus causes cervical intra-epithelial neoplasia.
  - 22. The method according to claim 1, wherein the tea catechin is orally administered.

\* \* \* \* \*

## EXHIBIT 6 TERMINAL DISCLAIMER

Attorney Docket No. 970232CIP/HG

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Shu Jun Cheng et al.

Serial No. : 09/056,378

Filed : April 7, 1998

For : METHODS FOR TREATING HYPERPLASIA

Art Unit : 1614

Examiner : R. Henley III

#### TERMINAL DISCLAIMER

The owners of a 100% interest in the above-identified present application, namely the Assignees of record:

Assignees: Cancer Institute (Hospital), Chinese Academy of Medical Sciences

Mitsui Norin Co., Ltd.

Assignment recorded on: April 7, 1998

Reel: 9088 Frame: 0322

hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the above-identified present application which extends beyond the full statutory term defined in 35 USC 154 to 156 of the following commonly owned patent:

Patent No.: 5,795,911 Issue Date: August 18, 1998 Filing Date: April 10, 1997

Any patent granted on the above-identified present application shall be enforceable only for and during such period that the patent granted on the above-identified present application is commonly owned with said commonly owned patent.

This Agreement is to run with any patent granted on the above-identified present application and to be binding upon the grantee, its successors or assigns.

In making the above disclaimer, there is no disclaimer of the terminal part of any patent granted on the above-identified present application that would extend to the expiration date of the full statutory term as defined in 35 USC 154 to 156 of said commonly owned patent in the event that said commonly owned patent later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a Court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims cancelled by a reexamination certificate, is reissued or is in any manner terminated prior to the expiration of its full statutory term.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or

imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

ASSIGNEE: CANCER INSTITUTE (HOSPITAL)

CHINESE ACADEMY OF MEDICAL SCIENCES

Date: 12, 1999

ASSIGNEE: MITSUI NORIN CO., LTD.

Date: April , 21. 1999 By: \_

Title:

Name: Isao Nabae Fitle: Phesident

## EXHIBIT 7 CERTIFICATE OF CORRECTION

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

: 5,968,973

Page 1 of 1

DATED

: October 19, 1999

INVENTOR(S) : Shu Jun Cheng et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Title page,

Insert the following item below item [73]:

-- [\*] Notice

This patent is subject to a

terminal disclaimer. --

Signed and Sealed this

Thirteenth Day of January, 2004

JON W. DUDAS

Acting Director of the United States Patent and Trademark Office

# EXHIBIT 8 MAINTENANCE FEE PAYMENT RECEIPT

#### UNITED STATES PATENT AND TRADEMARK OFFICE



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#### MAINTENANCE FEE STATEMENT

The data shown below is from the records of the U.S. Patent and Trademark Office. If the maintenance fee and any necessary surcharge have been timely paid for the patent listed below, the notation "PAID" will appear in the "STAT" column.

If the statement of small entity status is defective the reason will be indicated below in the "Small Entity" status column. THE STATEMENT OF SMALL ENTITY STATUS WILL BE ENTERED UPON RECEIPT OF ACCEPTABLE CORRECTION.

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5,968,973	\$890.00	\$0.00	09/056,378	10/19/99	04/07/98	04	NO	PAID	970232CIP/HG	_

Direct any questions about this notice to:
Mail Stop M Correspondence
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P.O. Box 1450
Alexandria, VA 22313-1450

### EXHIBIT 9 IND SUBMISSION LETTER

## 5162 DUKE STREET, SUITE 501, HALIFAX, NS B3J 1N7 CANADA 3 GOLDFINCH STREET, SAN DIEGO, CA 92 USA TEJFAX (619) 298-4279, PAUL@EPITOMEPHARM.COM

7 July, 1998

Dr. Roy Blay
Project Manager
Division of Dermatologic and Dental Drug Products
Center for Drug Evaluation and Research
Food and Drug Administration
9201 Corporate Blvd., HFD-540
Rockville, MD 20850

Dear Dr. Blay:

Epitome Pharmaceuticals, Ltd. hereby submits an Investigational New Drug application for Polyphenon ointment for the treatment of external genital warts.

I enclose an original, as marked, and two copies. I also enclose copies of all the literature cited in the IND as separate binders, for the convenience of the reviewers.

Please call me with any questions. I will be travelling until 19<sup>th</sup> July, but I will be receiving my messages and I will respond as soon as possible. I look forward to hearing from you soon.

Sincerely yours,

Paul T. Wegener PTW/ccl

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DEPARTMENT OF	FHEA! TH AND HUMAN SERVICES	Form Approved: OMB No. 0910-0014.
	LIC hTH SERVICE	F ation Date: December 31, 1999 S. OMB Statement on Reverse.
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	1. Form FDA 1571 [21 CFR 312.23(a)(1)]	
	2. Table of Contents [21 CFR 312.23(a)(2)]	
-	3. Introductory statement (21 CFR 312.23(a)(3))	
`	4. General Investigational plan for CFR and and the second	
-	4. General Investigational plan [21 CFR 312.23(a)(3)]	
-	5. Investigator's brochure <i>[21 CFR 312.23(a)(5)]</i> 6. Protocol(s) <i>[21 CFR 312.23(a)(6)]</i>	
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1	☑ b. Investigator data (21 CFR 312.23(a)(6)(iii)(b)) or completed Form(s) FDA 1572	
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1,	Environmental assessment or claim for exclusion [21 CFR 312.23(a)(7)(iv)(e)]	
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13	IS ANY PART OF THE CLINICAL STUDY TO BE CONDUCTED BY A CONTRACT RESEARCH ORGANIZATION?	
•	IF YES, WILL ANY SPONSOR OBLIGATIONS BE TRANSFERRED TO THE CONTRACT RESEARCH ASSOCIATION	
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shi	gion, UC 20201	1
M	DA 1571 (1/97)  Please DO NOT RETURN this application to this address.	

#### EPITOME PHARMACEUTICALS LIMITED

3920 GOLDFINCH STREET, SAN DIEGO, 92103 TEL/FAX (619) 298-4279, PAUL@EPITOMEPHARM.COM Q Dr. Dohm el. 28.8.39

7 July, 1998

## **IND Submission**

PolyPhenon E Ointment to treat genital warts

**Confidential Information** 

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## EXHIBIT 10 IND ACKNOWLEDGMENT LETTER

#### DEPARTMENT OF HEA I & HUMAN SERVICES



Food and Drug Administration Rockville MD 20857

IND 56,401

Epitome Pharmaceuticals Limited Attention: Paul T. Wegener, President 3920 Goldfinch Street San Diego, CA 92103 ···· 2 9 1998

Dear Mr. Wegener:

We acknowledge receipt of your Investigational New Drug Application (IND) submitted pursuant to section 505(i) of the Federal Food, Drug, and Cosmetic Act. Please note the following identifying data:

IND Number Assigned: 56,401

Sponsor: Epitome Pharmaceuticals Limited

Name of Drug: Polyphenon Ointment

Date of Submission: July 7, 1998

Date of Receipt: July 14, 1998

Studies in humans may not be initiated until 30 days after the date of receipt shown above. If, within the 30-day waiting period, we identify deficiencies in the IND that require correction before human studies begin or that require restriction of human studies until correction, we will notify you immediately that the study may not be initiated ("clinical hold") or that certain restrictions must be placed on it. In the event of such notification, you must continue to withhold, or to restrict, such studies until you have submitted material to correct the deficiencies, and we have notified you that the material you submitted is satisfactory.

It has not been our policy to object to a sponsor, upon receipt of this acknowledgement letter, either obtaining supplies of the investigational drug or shipping it to investigators listed in the IND. However, if the drug is shipped to investigators, they should be reminded that studies may not begin under the IND until 30 days after the IND receipt date or later if the IND is placed on clinical hold.

As sponsor of this IND, you are responsible for compliance with the Federal Food, Drug, and Cosmetic Act and the implementing regulations (Title 21 of the Code of Federal Regulations). Those responsibilities include (1) reporting any unexpected fatal or life-threatening adverse experience by telephone or fax no later than 7 calendar days after initial receipt of the information (21 CFR 312.32(c)(2)); (2) reporting any adverse experience with use of the drug that is both serious and unexpected in writing no later than 15 calendar days after initial receipt of the information (21 CFR 312.32(c)(1)); and (3) submitting annual

IND 56,401 Page 2

progress reports (21 CFR 312.33).

Please forward all future communications concerning this IND in triplicate, identified by the above IND number, and addressed as follows:

Food and Drug Administration
Center for Drug Evaluation and Research
Division of Dermatologic and Dental Drug Products, HFD-540
Attention: Document Control Room
5600 Fishers Lane
Rockville, Maryland 20857

Should you have any questions concerning this submission, please contact Millie Wright at (301) 827-2020.

Sincerely,

Mary J. Kozma-Fornaro
Supervisor, Project Management Staff
Division of Dermatologic and
Dental Drug Products, HFD-540
Office of Drug Evaluation V
Center for Drug Evaluation and Research

## EXHIBIT 11 NDA SUBMISSION LETTER



MediGene, Inc. 10660 Scripps Ranch Blvd., Szite 200 San Diego, CA 92131 USA Tel. (858) 586-2240 Fax (858) 586-2241 www.medigene.com

September 23, 2005

Dr. Jonathan Wilkin, M.D.
Director
Division of Dermatologic and Dental Drug Products
Center for Drug Evaluation and Research
Food and Drug Administration
9201 Corporate Blvd., HFD-540
Rockville, MD 20850

RE: New Drug Application # 21-902
Polyphenon® E Ointment, 15%
Original Application

Dear Dr. Wilkin:

MediGene is hereby submitting NDA # 21-902 for Polyphenon® E Ointment, 15% for topical treatment in the indication external genital and perianal warts (Condylomata acuminata) in adult patients. Polyphenon® E Ointment, 15% contains a botanical drug substance derived from green tea leaves of Camellia sinensis. The proposed pharmacologic class of Polyphenon® E Ointment, 15% is immuno-modulatory.

MediGene plans to market Polyphenon® E Ointment, 15% as a prescription drug.

For the National Drug Code, MediGene has assigned 003-01 for the Product and Package Code (3-2 Product-Package configuration).

The NDA is a paper submission being provided in the Common Technical Document (CTD) format and contains the following modules and number of volumes:

Module 1 - Administrative Information and Prescribing Information (1 volume)

Module 2 - Common Technical Document Summaries (4 volumes)

Module 3 - Quality (10 volumes)

Module 4 - Nonclinical Study Reports (47 volumes)

Module 5 - Clinical Study Reports (231 volumes)

This original application contains a full archival copy in addition to the review copies listed below. A copy of Modules 1 and 2 is provided in each review copy.

- Quality review (Module 3 and an additional 3 copies of the Methods Validation Package)
- Nonclinical review (Module 4)
- Clinical (safety and efficacy) review (Module 5, Volumes 1 93 and 231)
- Clinical (pharmacology and pharmacokinetics) review (Module 5, Volumes 1 93 and 231)
- Statistical review (Module 5, Volumes 1 93 and 231)
- Botanical review (Modules 3, 4, 5)

Concurrent with this submission, the field copy containing Modules 1, 2 and 3 has been provided directly to the FDA Los Angeles District Office at 19701 Fairchild, Suite 300, Irvine, CA 92612. A field copy certification is provided in Section 1.3.3 in Module 1.

Polyphenon<sup>®</sup> E Ointment, 15% is the intended name for the drug product in this NDA. However, some parts of the development program have been performed in Europe, and therefore, the European naming convention (Polyphenon<sup>®</sup> E 15% Ointment) has been used in various documents throughout the NDA.

The botanical drug substance manufacturer, Mitsui Norin Co., Ltd., has applied for an International Non-Propriety Name (INN) for the active moiety Polyphenon<sup>®</sup> E through the World Health Organization. The application is still pending at this time.

#### Explanatory notes to individual modules:

#### Module 1

MediGene AG has received a waiver from FDA of the human drug application fee (PDUFA User Fee) for this NDA (#21-902) under the small business waiver provision, § 736(d)(1)(D) of the Federal Food, Drug, and Cosmetic Act. A copy of the letter from FDA granting the waiver is provided in Module 1, Section 1.3.4 along with the User Fee Cover Sheet.

A request for waiver of a long-term (2-year) carcinogenicity study was submitted to the Agency on December 10, 2004 (IND # 56,401, Serial No. 057). A decision from FDA on the waiver request is still pending. A copy of the cover letter from the original long-term carcinogenicity waiver request is included in Module 1, Section 1.3.7.1. The cover letter has been updated to refer to study reports and literature references in the NDA rather than referring to documents in the IND. Edited references in the cover letter are shown in strike through font with updated references immediately following in **bold italics**.

Additionally, a request for full waiver of pediatric study requirements was submitted to the Agency on July 25, 2005 (IND # 56,401, Serial No. 063). As such, Polyphenon<sup>®</sup> E Ointment, 15% is intended to be prescribed for adult patients only. A copy of the pediatric waiver request is provided in Module 1, Section 1.3.7.2.

#### Module 3

The botanical drug substance manufacturer, Mitsui Norin Co., Ltd., has submitted a Drug Master File (DMF # 17964) to the Agency. Therefore, all sections of the NDA in Modules 2 and 3 pertaining to drug substance have been referred to the DMF and only limited information on the drug substance is provided in the NDA. A copy of the DMF letter of authorization from Mitsui Norin Co., Ltd. to FDA is provided in Module 1, Section 1.3.6.

As discussed with FDA in the pre-NDA meeting on January 24, 2005, stability data from the commercial manufacturer of Polyphenon<sup>®</sup> E Ointment, 15% is currently available through 6-months and is included in the NDA. Also provided is supporting stability data through 18 and 24 months for development (clinical) drug product manufactured by manufacturers other than the intended commercial manufacturer. The ointment formulation for the development (clinical) batches is identical to the to-be-marketed formulation. As requested by the Agency in the pre-NDA meeting, MediGene anticipates submitting 12-month stability data from the commercial manufacturer in December 2005 in order to support a longer shelf life than would be granted on the basis of the 6-month data submitted in the current NDA. Subsequently, 24-month stability data would be available and submitted to the Agency in December 2006. The intended shelf-life for Polyphenon<sup>®</sup> E Ointment, 15% is 24 months.

All facilities involved in the manufacture, packaging, and testing of both Polyphenon<sup>®</sup> E drug substance and Polyphenon<sup>®</sup> E Ointment, 15% are ready for inspection.

#### Module 5

Pursuant to 21 CFR § 314.50(f) and as requested in the pre-NDA meeting with FDA, hard copies of select case report forms (serious adverse events, early discontinuations, those excluded from per protocol analysis, lost to follow-up and others) are provided in the archival copy of the NDA (Module 5, Volumes 94 - 230).

#### Enclosed electronic files:

- The proposed draft text of the labeling and patient information in Module 1, Sections 1.4
  (Prescribing Information) and 1.5 (Annotated Labeling Text) are provided electronically
  in Portable Document Format (PDF) and Microsoft Word format on Compact Disc (CD)
  in addition to the hard copy included in Module 1. The CD is labeled, "Prescribing
  Information and Annotated Labeling Text".
- As confirmed with Millie Wright, Project Manager, FDA, CDER, ODE V, via email on July 12, 2005, it is acceptable to FDA that individual patient data listings (Module 5, Section 5.3.7.2) are provided on CD only. Enclosed is one CD containing individual patient data listings for all clinical studies included in the NDA (protocol numbers EPI-003, EPI-004, CT 1004, CT 1005, CT 1007, CT 1016, CT 1017, CT 1018, CT 1019). The CD is labeled, "CTD Section 5.3.7.2 Individual Patient Data Listings".

- SAS transport files and data definition tables for raw and derived efficacy and safety data are provided on four CDs. The CDs are labeled, "SAS Transport Files and Data Definition for Raw and Derived Efficacy and Safety Data".
- Electronic copies of text assessable files are provided for the following documents of the
  application on two CDs. The CDs are labeled, "Clinical Study Reports, Protocols,
  Addenda (Searchable Adobe PDF and/or MS Word Files of Phase 3 Studies)".
  - Integrated Summary of Efficacy
  - Integrated Summary of Safety
  - Top-Line Statistical Report (CT 1017 and CT 1018 combined)
  - Clinical study reports, protocols and protocol amendments for the phase 3 studies CT 1005, CT 1017 and CT 1018.

All enclosed CDs have been virus checked.

Should you have any questions or comments, please do not hesitate to contact me at 858-586-2252 or by email at p.larson@medigeneUSA.com.

Sincerely,

Pam Larson

Sr. Manager, Regulatory Affairs

MediGene, Inc.

## EXHIBIT 12 IND LOG

# Polyphenon® E Ointment Pre-IND Documentation

STATE OF THE STATE	क्षित्रकाहितामात्त्व	Contacto	
April 21, 1997	-	Epitome fax to FDA requesting documents on Condylox	Epitome Fax
April 21, 1997	-	Epitome F/U to conversation w/FDA re:	Epitome Letter
May 9, 1997	-	Acknowledgement of receipt re: requested records	FDA Letter
May 28, 1997	-	Epitome letter to FDA requesting Guidance documents	Epitome Letter
June 12, 1997	-	Fax from Epitome to FDA requesting review of data ahead of meeting to discuss Phase II trial design (Missing attachment)	Epitome Fax
June 12, 1997	•	FDA fax External Constituents Request for Meeting	FDA Fax
June 13, 1997	•	FDA fax re: review of Phase II data	FDA Fax
July 2, 1997		Epitome fax to FDA requesting docs under Freedom of Information Act	Epitome Fax
July 8, 1997		Epitome fax to FDA concerning meeting requested	Epitome Fax
July 21, 1997	•	Letter from FDA acknowledging receipt of requested records	FDA Letter
July 25, 1997	•	Epitome fax to FDA requesting face-to- face meeting in September	Epitome Fax
August 12, 1997	-	Epitome fax to FDA requesting face-to- face meeting	Epitome Fax
September 29, 1997		Epitome letter to FDA re: Pre IND submission for Wart Heal (Missing pages 4 and beyond in section 4 of submission package)	Epitome Letter
October 17, 1997	-	Epitome fax to FDA (Dr. Wilkin) re:  Wart Heal Meeting	Epitome Fax
October 19, 1997	-	Epitome fax to FDA re: Wart Heal Pre IND Meeting issues & resolutions	Epitome Fax
June 15, 1998	-	Epitome fax to FDA re: final preparation of IND submission	Epitome Fax

#### Polyphenon® E Ointment Summary of FDA Communications IND 56,401

	Senia Brumber	g de la companya de l	AT WAR IN THE
		IND	The state of the s
		(Missing these sections:	
July 7, 1998	000	Signed Form 1571 (draft version currently in	Submission
••••	<u> </u>	files)	
		References)	
	·	Epitome letter to FDA re: diskettes for	
July 27, 1998	-	Medical Reviewer	Epitome Letter
		(Missing the diskenes)	
July 29, 1998	•	Letter from FDA acknowledging receipt	FDA Letter
		of IND #56,401	TD A D
August 07, 1998	•	FDA Fax re: comments to PTLs	FDA Fax
August 08, 1998	-	Epitome fax to FDA	Epitome Fax
	·	Re: revisions to protocols	<u> </u>
		Fax to FDA Changes to PTL  Re: Dr. Ko's comments	
August 12, 1998		(Missing 5 pages of the fax (fax cover sheet	Epitome Fax
rugust 12, 1990		indicates I pages total: only 6 pages are	Epitomo Tun.
		available in the current file))	
Assessed 12, 1009	-	FDA Fax Memo	FDA Fax
August 12, 1998	• • • • •	Re: more changes to PTL	FDA Fax
	001	IND Revisions	Submission
August 12, 1998		(Missing attachments to submission (revised	
		protocols))	
August 12, 1998	. •	Epitome Letter to FDA Re: questions to CMC	Epitome Letter
		Epitome fax to FDA requesting	
Camtombor 20, 1008		discussion on Statistical, Pharm/Tox and	Enitome Fav
September 29, 1998	•	Dose Ranging Issues	Epitome Fax
		FDA Fax w/review comments to	
October 02, 1998	-	PTLs EPI-003 & 004	FDA Fax
		Epitome Fax to FDA granting National	
	•	Cancer Institute permission to cross	
October 30, 1998	-	reference IND	Eptiome Fax
	•	(Missing signed fax)	
	000	Epitome request to FDA for advice	Calanianian
November 5, 1998	002	Re: CMC issues	Submission
25 1000		Fax from FDA w/comments to	FDA Fax
November 25, 1998	- 	chemistry & pharmacology	FDA Fax
December 1, 1998		FDA Fax Memo w/Dr. Ko's comments	FDA Fax
December 4 1000		FDA Fax w/minutes from telecon on	FDA Fax
December 4, 1998	<u>•</u>	December 2, 1998	IDA PAX
January 4, 1999	003	Clinical Update	Submission
January 4, 1999		(Missing protocol EPI-004 dated 29 Nov 98)	
February 9, 1999	-	Submission of desk copies of Serial 003	Submission
10014415 7, 1777		(Missing protocol EPI-004 dated 29 Nov 98)	J

16711	Span Annina	Tennan bases	MABO TO
March 29, 1999	-	Epitome fax revised CMC section	Epitome Fax
		Revised Protocols	
	1	(Missing the following:	
April 9, 1999	004	Protocol EPI-003 dated 23 Mar 99	Submission
		• List of changes to the protocols	
		Document comparison for revised protocols)	<del> </del>
April 16, 1999	-	Correction to Serial 004	Letter
•	<del> </del>	(Missing attachments)	
July 8, 1999	-	FDA Fax re: Pharm/Tox review	FDA Fax
		comments	
December 13-21, 1999 (telecon date unknown)	-	Epitome minutes of telecon with FDA	Telecon minutes
December 21,1999	005	Faxed Copy of Annual Report – effective 8/29/99	Fax Submission
		Fax to FDA (from Epitome)	
January 13, 2000	-	Re: trials with another formulation (Missing fax)	Epitome Fax
		Revised Protocols	
January 26, 2000	006	(Missing disk)	Submission
· · · · · · · · · · · · · · · · · · ·		Transfer of Responsibility from Epitome	
April 27, 2000	006	to MediGene/Waldman Biomedical	Submission
11pili 27, 2000		Consultancy (WBC)	<b>Duominabilon</b>
		Desk copy of Serial-006 (transfer of	2010
April 27, 2000	-	responsibilities) to Millie Wright	Letter
		Submission of desk copy of Letter for	
April 27, 2000	_	Transfer of Responsibility from Epitome	Submission
11pm 27, 2000		to MediGene/WBC	Dubinibation
<del></del>		Support documents for WBC to	
June 10, 2000	007	represent MediGene, AG	Submission
June 10, 2000	007	(Missing form FDA 1571)	Buomission
		FDA Letter	
Date ???		Re: Transfer of responsibility from	_
June 10, 2000	-	Epitome to MediGene	FDA Letter
, , , , , , , , , , , , , , , , , , ,		(No date, missing appended signature page)	
December 20, 2000	008	Annual Report- 12/20/00	Submission
2000		Request for Guidance letter from I.	
January 29, 2001	•	Gander, MediGene AG to FDA	Letter
Julium y 22, 2001		(Missing letter)	Dollor
		Letter to FDA re: MediGene request for	
March 20, 2001	-	a Type C Guidance Meeting	Waldman Letter
		(Missing signed letter from Waldman)	<i>i</i>
		Fax Submission of FDA 1571 to support	<del></del>
March 27, 2001	009	request for meeting letter submitted on	Fax Submission
	-	3/20/01	*
		Fax Submission of FDA 1571 to support	
March 27, 2001	010	Request for Guidance letter submitted	Fax Submission
		by Dr. I. Gander on 1/29/01	Caoiiiiobioii
		-J Guildor Oli 1/2//VI	

	Serial Number		TAVALL
		Submission of FDA 1571s for	
March 27, 2001	009 & 010	Serial 009 (Request for Meeting) and	Submission
		Serial 010 (Request for Guidance)	
		Letter to FDA Re: MediGene	
March 29, 2001	-	Acceptance of Transfer of the IND	Waldman Letter
		(file attachments were reconstructed from previous submissions)	
	<u> </u>	Information Package (dated	
May 11, 2001		May 10, 2001) to FDA	Information
1,12, 12, 2001		Re: Type C Meeting	Package
		Corrected Version of Attachment J-	
May 16, 2001		Information Package for Type C	Waldman Letter
10, 2001		Meeting	Waldman Bottor
		Minutes from MediGene Guidance	Meeting Minutes
June 11, 2001	-	Meeting w/FDA 6/11/01	(internal)
		Executive Summary to Guidance	Summary
June 11, 2001	•	Meeting with FDA on 6/11/2001	(internal)
August 13, 2001	-	Meeting Minutes for 6/11/01	FDA Fax
		Request for an End of Phase 2	
August 17, 2001	011	Meeting/pre-Phase 3 Meeting	Fax Submission
		Request for Review of Draft Preclinical	
August 22, 2001	012	Protocol	Fax Submission
October 16, 2001	-	Letter to FDA-review of Minutes	Waldman Letter
		Information Package for Type B, End of	
October 19, 2001	013	Phase 2/pre-Phase 3 Meeting	Submission
		Reviewers Comments re: Sponsor's	Reviewers
November 19, 2001	•	Meeting Package Submitted 10/19/01	Comments
		Register of Meeting Participants-	
November 19, 2001	•	meeting between FDA & MediGene	Participant Log
		MediGene Minutes from the End of	Meeting Minutes
November 19, 2001	•	Phase 2 Meeting w/FDA	(internal)
	^**	Minutes End of Phase 2/	
December 11, 2001	014	pre-Phase 3 Meeting	Submission
December 20 2001	015	Annual Report – 2001	Submission
December 21, 2001	016	Letter to FDA requesting teleconference	Waldman Letter
		Letter to FDA re: MediGene review of	
December 26, 2001	-	comments from FDA	Waldman Letter
		(Missing signed letter from Waldman)	
Ianuary 23, 2002	017	Withdrawal of Telecon Request	Submission
January 23, 2002	017	Submission 016	Submission
February 11, 2002	018	Informational Amendment: Clinical	Submission
		Final Study Report	Submission
February 12, 2002	019	Information Amendment: Pharm/Tox	Submission
February 14, 2002	020	Request Special Protocol Assessment-	Submission
1 501 daily 14, 2002	020	Phase 3	Submission
February 20, 2002	021	Request Special Protocol Assessment-	Submission
1 501 uni y 20, 2002	021	Preclinical Trial PTLs	Submission

The Section 1	Senal Number	en i en	THE THEFT IS
1 ( 2002	022	Withdrawal of a Special Protocol	Cubasiasias
March 6, 2002	022	Assessment Submission 020	Submission
		Letter to FDA requesting Meeting for	
		Phase 3	
March 13, 2002	-	(Waldman letter is not signed nor on letterhead	Waldman Letter
		(the copy in the files appears to be a draft - it is	
1 10 0000	002	unclear if this was ever submitted to FDA))	Culturiani
March 18, 2002	023	Request for a Meeting Phase-3	Submission
March 25, 2002	024	Information Package for Meeting on Global Clinical Issues	Submission
		Fax from FDA	
April 17, 2002	-		FDA Fax
		Re: Meeting Minutes for 11/19/01 Fax from FDA	<del></del>
. :: ia aooa			EDA E
April 17, 2002	-	Re: clinical reviewer comments on	FDA Fax
		Serial 018	
April 17, 2002	-	Fax from FDA	FDA Fax
		Re: comments on Serial #023	
		Letter to FDA	·
A		Re: Notification that Jane Campbell is authorized to act on behalf of WBC for	Waldman Letter
April 18, 2002	-		waldilali Lettel
		any matters related to IND 56,401 (Missing letter)	
		Letter from FDA	
April 19, 2002		Re: Serial 020 and Clinical Trials	FDA Letter
April 19, 2002		Database	I DA Louoi
		Information Amendment – Submission	
April 29, 2002	025	of FDA 1571 for Waldman Letter dated	Submission
71pm 25, 2002		April 18, 2002	
		Request for a Special Protocol	
May 1, 2002	026	Assessment Phase 3	Submission
		FDA Letter	
May 21, 2002	-	Re: Receipt and acceptance of Serial	FDA Letter
,		026, Special Protocol Assessment	
		Fax from FDA	
June 12, 2002	•	Re: Reviewers comments (dated	FDA Fax
• · · · · · · · · · · · · · · · · · · ·		June 10, 2002) to Serials 019, 021, 026	
		Fax from FDA	
June 12, 2002	-	Re: Copy of letter on Special Protocols,	FDA Fax
• · · · · · · · · · · · · · · · · · · ·	• .	Serial 026	
		Letter from FDA concerning Serial 026	
June 12, 2002		requesting Special PTL Assessment For	FDA Letter
•	·	Phase 3	·
T 01 2002		Letter from FDA concerning submission	TDA Letter
June 21, 2002	•	026 and Clinical Trials Data Bank	FDA Letter
		MediGene AG Response to FDA	
June 28, 2002	027	Comments on Special PTL Assessment	Submission
, .		(Serial 026)	

Comment of the second	Serial Number	Emrail.	SEA SEE
		Fax to FDA concerning response to	
	•	FDA comments on Special PTL	
June 28, 2002		Assessment	Waldman Fax
•	ļ	(Missing fax (this fax is referenced in the fax	
		sent on July 1, 2002))	
		Fax to FDA-concerning response to	
July 1, 2002	. •	FDA comments to Phase 3	Waldman Fax
•	1.	(fax attachments were reconstructed from June 28, 2002 submission of Serial 027)	
		Information Amendment and response	
August 15, 2002	028	to FDA comments (dated June 10, 2002)	Submission
		to Serials 019, 021, 026	Submission .
		MediGene AG response to FDA's	
August 20, 2002	029	preclinical recommendations	Submission
		Fax from FDA w/comments from Stats	
September 06, 2002	•	reviewer for Serial 027	FDA Fax
		Information Amendment	
September 11, 2002	030	CMC	Submission
	<u> </u>	Information Amendment	
October 7, 2002	031	Clinical & Preclinical	Submission
November 29, 2002	032	Update to Serial 031, page replacement	Submission
140 VCIIIOCI 25, 2002	032	Information Amended-	Subilission
December 18, 2002	033	Pharmacology & Toxicology	Submission
December 23, 2002	034	2002 Annual Report	Submission
December 23, 2002	754	Fax from FDA – Statistics Comments	Submission
December 24, 2002	-	regarding Serial 031	FDA Fax
· · · · · · · · · · · · · · · · · · ·		Information Amendment	
December 30, 2002	035	Proposal to use Hochberg procedure for	Submission
December 50, 2002		statistical analysis plan	Submission
		Request for Guidance regarding use of	
January 30, 2003	036	second supplier for API	Submission
	· · · · · · · · · · · · · · · · · · ·	Record of FDA communication (phone	Emailed Phone
March 18, 2003	•	call received by WBC)	Record
May 29, 2003	037	Transfer of regulatory responsibility	Submission
Way 29, 2003		Fax from FDA – Stats reviewer	Submission
July 9, 2003	<b>-</b> .	comments on Serial 035	FDA Fax
		Protocol Amendment - CT1018	······································
July 29, 2003	038	Addition of Clinical Investigators	Submission
		Record of Regulatory Agency	
July 30, 2003	<b>-</b>	Communication (Becky Donahue)	Phone Record
		Record of Regulatory Agency	
July 31, 2003	•		Phone Record
		Communication (Becky Donahue)	
August 1, 2003	039	Response to Serial No. 038	Submission
		Electronic Copy of Protocol CT1018	
September 3, 2003	040	Protocol Amendment – CT1018	Submission
· ·		Addition of New Investigator (Gall)	
October 23, 2003	041	Protocol Amendment – CT1018	Submission
		Addition of New Investigator (Hemsell)	

A COMMON AND A COM	Section Number	Commercial	STATE STATE OF THE
November 3, 2003	042	Annual Report	Submission
		Change of MediGene, Inc. phone and	
November 04, 2003	043	fax numbers	Submission
		Protocol Amendment - Addition of	
December 2, 2003	044	New Investigator (Strober)	Submission
		15-Day Safety Report - SAE (pustular	
December 19, 2003	045	vulvovaginitis) at Colombian Site	Submission
January 9, 2004	046	Change of Address	Submission,
		Protocol Amendment - New Clinical	
February 13, 2004	047	Investigators (Non-U.S. sites)	Submission
		Protocol Amendment - New Clinical	
February 26, 2004	048	Investigator (Dr. Cheryl Gibson, site	Submission
, 200		USA-10, replaces Dr. Thomas)	
	0.40	Protocol Amendment - Updated 1572's	
April 6, 2004	049	& New Labels	Submission
		Request for SLI Carcinogenicity Study	E 4 ED 4
April 26, 2004	, <del>-</del>	(FOIA Request)	Fax to FDA
3.6. 4.0004		Request for SLI Study must be sent	DI D
May 4, 2004	-	directly to NCI (FOIA Request)	Phone Record
3.5. 5.0004		Request for SLI Carcinogenicity Study	F to NGI
May 5, 2004	-	(FOIA Request)	Fax to NCI
May 6, 2004		Response to May 5, 2004 fax to NCI	Letter from NCI
	050	Information Amendment - Updated	Submission
May 11, 2004		1572 (Dr. Higareda-Almaraz, Mexico)	
T 7 2004	051	Information Amendment – Updated	Submission
June 7, 2004	031	1572 (Dr. Caracas, Romania)	Submission
August 3, 2004	052	Protocol Amendment - New & Updated	Submission
August 3, 2004	032	1572s	
August 31, 2004	-	Pre-NDA Meeting	Phone Record
November 3, 2004		Pre-NDA Meeting - Official Request	Phone Record
November 3, 2004	053	Request for a Type B Meeting - Pre-	Submission
November 3, 2004	033	NDA Meeting	Bublinssion
November 5, 2004	· _	Pre-NDA Meeting – Discussion of	Phone Record
		meeting type and tentative date	
November 9, 2004	054	Annual Report	Submission
November 9, 2004		Confirmation of pre-NDA meeting date	FDA Email
		(January 24, 2005)	
November 11, 2004	-	Acknowledgement of FDA email	Email to FDA
		FDA correspondence: Type B meeting	
November 15, 2004	-	scheduled for January 24, 2005,	FDA Letter
		1:00 – 2:00 pm	
November 30, 2004	055	Preclinical Amendment	Submission
December 03, 2004	056	Information Amendment-CMC	Submission
December 06, 2004		Pre-NDA Meeting Agenda Email	Email to FDA
December 06, 2004		Response from FDA-Pre-NDA Meeting	Email from FDA
December 07, 2004	_	Pre-NDA Meeting Logistics email	Email to FDA
December 10, 2004	057	Request for Carcinogenicity waiver	Submission

Date Control	See alexandrace	Section of the sectio	95640
December 17, 2004	058	Pre NDA Meeting Package	Submission
December 20, 2004	•	Pre NDA Meeting Package	Phone Record
December 29, 2004	•	Request for Summary Basis of Approval for Aldara (imiquimod) Cream, 5%	Fax to FDA
January 03, 2005	-	(FOIA Request)  Receipt of FOIA request	Letter from FDA
January 21, 2005	059	Pre NDA Meeting List of Attendees	Submission
January 21, 2003	039	Fax of Pre NDA List of Attendees to M.	
January 21, 2005	-	Wright (Serial 059)	Fax to FDA
January 21, 2005	-	Pre NDA Meeting Package Comments	Fax from FDA
January 24, 2005	-	Pre NDA Register of Meeting Participants	Meeting with FDA
February 2, 2005	-	FOIA Response Summary Basis of Approval for Aldara	Letter from FDA
February 4, 2005	060	General Correspondence MediGene Pre-NDA Meeting Minutes	Submission
February 8, 2005	•	Correspondence from FDA re: setting up secure email for NDA	Fax from FDA
February 9, 2005	•	Telecon with Millie Wright re: secure email	Phone Record
February 11, 2005	•	Email to W. Lee re: setting up secure email	Email to FDA-
February 14, 2005	-	Email from W. Lee-Secure email guide	Email from FDA
February 14, 2005	• •	Email to W. Lee-Secure Email Guide correspondence	Email to FDA
February 16, 2005	. <del>-</del>	Fax from M. Wright Official Minutes Pre-NDA Meeting	Fax from FDA
February 18, 2005	-	Letter from FDA including Official Meeting Minutes from Pre-NDA	Letter from FDA
February 24, 2005	-	Telecon with Sandy Childs re: Information on Submission Date for NDA	Phone Record
February 25, 2005	•	Email to M. Wright re: Electronic Format	Email to FDA
February 25, 2005	-	Telecon with CDER Document Room re: Pre-assigned NDA Number	Phone Record
February 25, 2005	-	Email to Sandy Childs re: phone number for Document Control Room	Email to FDA
February 25, 2005	<u>-</u>	Email response from Sandy Childs with Telephone number to Document Control Room	Email from FDA
March 30, 2005	•	Email to M. Wright re: Number of Copies of NDA	Email to FDA
April 1, 2005		Email from M. Wright out of the office	Email from FDA
April 1, 2005	-	Email to M. Wright acknowledging out of the office and will follow-up next week	Email to FDA

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April 7, 2005	<b>-</b> .	Telecon with Millie re: Electronic format for NDA, Number of Volumes, Carcinogenicity waiver	Phone Record
April 21, 2005		Email to Millie regarding binder colors for NDA	Email to FDA
May 11, 2005	•	Request for Waiver of Application Fee	Letter to FDA
May 23, 2005	061	General Correspondence: Change of MediGene Authorized Representative	Submission
May 23, 2005		Copy of Serial 061 Cover Letter to M. Wright	Letter to FDA
May 25, 2005	062	General Correspondence: Clinical Long-term safety evaluation	Submission
June 22, 2005	<u>-</u>	Telecon with Millie re: NDA binder colors	Phone Record
June 23, 2005	-	Teelcon with Beverly Friedman re: PDUFA User Fee Waiver Request	Phone Record
June 24, 2005	-	Amendment to Request for Waiver of Application Fee Submitted on May 11, 2005	Submission
June 29, 2005	<b>-</b>	Telecon with Beverly Friedman re: MediGene AG's affiliates	Phone Record
June 29, 2005	•	Email to Beverly Friedman regarding MediGene AG's affiliates	Email to FDA
June 30, 2005		Reply Email from Beverly Friedman response received	Email from FDA
June 30, 2005	•	Email to Millie re: NDA Patient Data Listings	Email to FDA
July 12, 2005	-	Email from FDA: Response NDA Patient Data Listings	Email from FDA
July 25, 2005	063	Request for waiver of Pediatric Studies	Submission to FDA
September 06, 2005	<u>-</u>	Letter from FDA granting approval of the small business waiver of the application fee for NDA 21-902	Letter from FDA
October 11, 2005	•	Telecon with Millie Wright	Phone Record
October 11, 2005	<u>-</u>	Email to Millie Wright re: FDA address change	Email to FDA
October 11, 2005	-	Email from Millie Wright re: FDA change of address	Email from FDA
November 10, 2005	064	Annual Report	Submission to FDA

## EXHIBIT 13 NDA LOG

### Polyphenon® E Ointment, 15% FDA Correspondence and Submission Summary NDA 21-902

	Sannista.		FYIRD
September 23, 2005	001	NDA Submission	Cubii-
September 23, 2005		NDA Field Copy Submission	Submission Submission
October 11, 2005		Telecon with Millie Wright, re: receipt of	Submission
October 11, 2003		NDA, new acting Division Director	Phone Record
October 11, 2005		Email to Millie Wright, re: Central	
October 11, 2005	<u> </u>	Document Room address change	Email to FDA
October 11, 2005		Email from Millie Wright re: Central	
		Document Room address	Email from FDA
November 16, 2005	-	Email to Millie Wright, re: PL out of office	Email to FDA
November 28, 2005	-	Telecon with Robert Hummel, re: NDA	Phone Record
November 29, 2005	_	Telecon with Robert Hummel, re: NDA	
		telecon	Phone Record
November 29, 2005		Email to Robert Hummel, re: NDA telecon	Email to FDA
November 30, 2005	_	Email from Robert Hummel, re: INN /	
· · · · · · · · · · · · · · · · · · ·		USAN status	Email from FDA
November 30, 2005		Telecon with FDA, re: INN /USAN status	Phone Record
December 2, 2005	-	Telecon with FDA, re: NDA CMC	
		Questions - Manufacturers, PE Testing	Phone Record
December 2, 2005	-	Email to FDA, re: Follow-up from telecon	Email to FDA
December 8, 2005		Telecon with FDA, re: USAN Application	Phone Record
December 8, 2005	-	Fax from FDA, re: Filing Communication	Fax from FDA
December 9, 2005	002	CMC Amendment: Tabular Summary of	
		Manufacturers, PE Testing	Submission
December 14, 2005	_	Email from FDA, re: Response to voicemail	Email from FDA
		on CMC question (characterization)	Eman from FDA
December 14, 2005		Email to FDA, re: Request for clarification	
December 14, 2005	-	on CMC question #3 in Filing	Email to FDA
	<del></del>	Communication (characterization)	
December 14, 2005	-	Email from FDA, re: Schedule telecon to	Email from FDA
		discuss CMC question # 3 (characterization)	Eman nom i DA
December 15, 2005	-	Telecon with FDA, re: clarification on	Phone Record
_		CMC Question #3 in filing communication	- Inone Record
December 16, 2005	<b>-</b>	Letter from FDA-Filing Communication	Letter from FDA
D 1 00 0000		dated Dec. 8, 2005 (Original hard copy) Email to Millie Wright, re: update on	
December 22, 2005	-	USAN name	Email to FDA
D - 1 - 20 2005		Email to Millie Wright, re: Stability	
December 29, 2005	-	Amendment Update	Email to FDA
January 4, 2006		Telecon with FDA, re: Clinical Site	
January 4, 2006	-	Inspection CT 1017 – Russian Site # 1	Phone Record
Tomas 6 2006		Email to Millie Wright, re: Follow-up to	
January 5, 2006	-	Phone Record –Russian Site Information	Email to FDA
<u> </u>		Toola Russian Sile information	

Date	- Subadsina Sindasi	Continue Long.	- HYND
January 6, 2006	003	Response to Filing Communication	Submission
January 16, 2006	004	Response to FDA email 11/30/05, re: USAN and INN Status	Submission
January 17, 2006	-	Email from R. Hummel, re: USAN Status and additional CMC questions	Email from FDA
January 17, 2006	-	Email response to R. Hummel, re: USAN Status and additional CMC questions	Email to FDA
January 23, 2006	-	Email Confirmation of PDUFA date	Email from FDA
January 25, 2006	-	Phone call with Millie Wright – Clinical Site Audits and Miscellaneous	Phone Record
January 26, 2006	-	Email information of CT 1018 Chile # 4 and US # 9 sites	Email to FDA
January 26, 2006	_	Additional Copies of NDA 21-902 Submission 003 to M. Wright	Submission of Desk Copies to FDA
January 27, 2006	- -	Telecon with Dr. Rajiv Agarwal, CMC Reviewer, re: Batches Used in Pivotal Clinical Studies	Phone Record
January 30, 2006	005	CMC Amendment - Addition of 12 Month Stability Data for Ointment	Submission
February 1, 2006	-	Telecon with Roy Blay, Ph.D., Office of Medical Policy, re: Information request in preparation for Clinical Site Audits	Phone Record
February 1, 2006	-	Email to M. Wright, re: Meaning of "E" in Polyphenon® E	Email to FDA
February 1, 2006	-	Email to R. Hummel, re: test for heavy metals and arsenic JP vs. USP	Email to FDA
February 1, 2006	-	Fax from M. Wright, re: Clinical and Statistical Questions	Fax from FDA
February 3, 2006	006	Supplemental Form FDA 356h	Submission
February 7, 2006	-	Email from R. Hummel, re: Dr. Agarwal's advice regarding USP vs. JP methods	Email from FDA
February 14, 2006	-	Telecon with Millie, re: changing the drug product trade name	Phone Record
February 16, 2006	007	CMC Amendment-Response to email questions from FDA 1/17/06	Submission
February 16, 2006	008	Response to DSI (Roy Blay) requests on 2/1/06, Clinical Site Information	Submission
February 22, 2006		Email from R. Hummel, re: CMC Batch Info.	Email from FDA
February 22, 2006	009	Clinical Site Information (Letters of Assurance)	Submission
February 23, 2006	-	Voice message from Roy Blay, re: Follow- up to email	Phone Record

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February 28, 2006	-	Email to Millie Wright, re: Label Mock-ups	Email to FDA
February 28, 2006	010	CMC Amendment - Response to FDA Email Dated February 22, 2006	Submission
March 1, 2006	-	Fax from M. Wright, re: Clin. Pharm./CMC question; clarification to Feb. 22 fax	Fax from FDA
March 1, 2006	-	Telecon with Dr. Rajiv Agarwal, re: Add'l batch info; update on USAN application	Phone Record
March 2, 2006	011	CMC Amendment-Response to Phone Request on March 1, 2006	Submission
March 6, 2006	012	Clinical/Statistical Amendment: Response to FDA Fax Dated Feb.1, 2006	Submission
March 8, 2006	-	Telecon with Millie Wright, re: status of clin./stat. questions, trade names	Phone record
March 8, 2006	<b>-</b>	Telecon with Rajiv Agarwal, re: Add'l CMC Requests - API blending, 10% ointment	Phone Record
March 28, 2006	-	Email to Rajiv Agarwal, re: NDA 21-902, Response to Phone Inquiry of 3/8/06	Email to FDA
April 7, 2006	-	Fax from FDA, re: Clinical reviewer request for drug product samples	Fax from FDA
April 17, 2006	013	CMC Amendment – Submission of Comparability Protocol for Addition of Second Drug Substance Manufacturing Site	Submission
April 18, 2006	-	Email to FDA (copy of Submission 013) and response from R. Hummel, re: Goldie, Scott, new CMC Project Manager	Émail to and from FDA
April 18, 2006	014	Response to FDA Fax Dated April 6, 2006 - Drug Product Samples	Submission
April 18, 2006	015	Addendum to Response to Filing Communication Submitted on January 6, 2006 (Submission No. 003)	Submission
April 20, 2006	016	Response to Clinical Pharmacology/CMC Fax of March 1, 2006	Submission
April 20, 2006	017	CMC Amendment – Response to FDA Phone Inquiry on March 8, 2006	Submission
April 20, 2006	-	Telecon with Millie Wright, re: status of trade names, 10% ointment data, misc.	Phone record
April 21, 2006	018	CMC Amendment – Additional Response to Filing Communication dated 12/8/2005, Identity and Assay for Excipient Oleyl Alcohol	Submission
April 21, 2006	-	Telecon with Millie Wright, re: Comparability Protocol and Trade Names	Phone record
April 25, 2006	019	Labeling Amendment	Submission

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April 26, 2006	-	Telecon with Millie Wright, re: update 10% Ointment Stability Data, Worldwide Marketing Status, CT1005	Phone record
April 27, 2006	-	Email to Millie Wright in response to Dr. Papadopoulos' questions	Email to FDA
April 28, 2006	•	Email from Millie Wright, re: request for raw data for Dr. Papadopoulos	Email from FDA
April 28, 2006	-	Email from Millie Wright, re: request for batch analysis of 10% drug product (Haupt) & comparison (10% vs. 15%)	Email from FDA
April 28, 2006	-	Email to Millie Wright with additional information in response to Dr. Papadopoulos' questions	Email to FDA
April 28, 2006	-	Fax from Irma Rivera at FDA to propose inspection dates for two manufacturing facilities in Germany	Fax from FDA
May 1, 2006	020	Clinical Amendment – Response to Questions from Dr. Elektra Papadopoulos	Submission
May 3, 2006	021	General Correspondence – Clarification to Submission No. 013, CMC Amendment	Submission
May 5, 2006	022	Clinical Amendment – CT 1005 Site 45 Raw Data Requested by Dr. Elektra Papadopoulos	Submission
May 18, 2006	023	CMC Amendment – Response to Chemistry Reviewer Request 10% Batch Data & Stability	Submission
May 22, 2006	-	Telecon with Millie Wright, re: FDA request for telecom to discuss questions from clinical & statistical reviewers	Phone record
May 22, 2006	-	Fax from Millie Wright at FDA with CMC reviewer information request	Fax from FDA
May 22, 2006	-	Fax from Millie Wright at FDA re: Telecon, May 23 at 4:30 PM	Fax from FDA
May 23, 2006	-	Fax from Millie Wright at FDA re: CMC Reviewer Questions	Fax from FDA
May 23, 2006	-	MediGene internal minutes – Telecon with Millie Wright, et al re: Reproduction of efficacy results & generation of relapse data	Phone record
May 26, 2006	024	Clinical Amendment – Response to Clinical/Statistical Questions in FDA Fax Dated May 22, 2006	Submission
June 2, 2006	025	Clinical Site Information, Correction to Amendment # 008 (February 16, 2006). Copy to Roy Blay.	Submission
June 5, 2006	-	Telecon with Millie Wright at FDA re: Follow-up to Clin/Stat Submission # 024	Phone record

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		CMC Amendment – Response to FDA	
June 6, 2006	026	CMC Information Requests via Fax Memorandums, Dated May 22, 2006 and May 23, 2006	Submission
June 12, 2006	-	Telecon with Millie Wright at FDA re: Status of Clin/Stat Submission # 024	Phone record
June 22, 2006	027	General Correspondence – New Medigene Authorized Representative	Submission
June 22, 2006	-	Telecon with Millie Wright at FDA, re: USAN update and FDA request for telecon	Phone record
June 23, 2006	-	Response To Request for 3 Desk Copies each of the ISS and ISE	Mail Correspondence to FDA
June 26, 2006	<u>.</u> . :	PDUFA Extension Letter	Fax from FDA
June 26, 2006		Meeting Minutes: Status of NDA – FDA Meeting Via Teleconference	Teleconference Meeting Minutes
June 29, 2006	-	CMC Information Request	Fax from FDA
June 29, 2006	<u>-</u>	PDUFA Extension Letter	Letter from FDA
June 29, 2006	-	Suggested USAN Name	Letter from USAN Council
July 10, 2006		CP.001/Labeling Negotiations/CMC/Clinical-Biostatistics Review Status	Phone Record
July 11, 2006	028	General Correspondence: CMC Information Request Rationale	Submission
July 13, 2006	-	Accepted Trade Name	Fax from FDA
July 18, 2006	-	CMC Information Request Rationale/10% or 15% Formulation Review Status	Phone Record
July 24, 2006	029	General Correspondence: Clinical/Statistics Review Status	Submission
July 27, 2006	<u>.</u>	CMC Information Request Rationale Follow-up/120-Day Safety Update	Phone Record
August 01, 2006	-	CMC Information Request Rationale FDA Teleconference/120-Day Safety Update/Labeling Amendment	Phone Record
August 01, 2006	<u>-</u>	FDA Official Meeting Minutes of August  1 <sup>st</sup> TC on DS and DP Specs	Letter from FDA
August 02, 2006	030	Safety Update	Submission
August 09, 2006	031	CMC Amendment – Response to FDA Fax Memorandum Dated June 28, 2006	Submission
August 10, 2006	032	Label Amendment	Submission

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August 14, 2006	-	CMC Amendment Correction/August 23 FDA-MNK Meeting	Phone Record
August 14, 2006	033	CMC Amendment Correction	Submission
August 14, 2006	034	NDA Amendment - Type A Meeting Request	Submission
August 16, 2006	035	Type A Briefing Document	Submission
August 18, 2006	036	General Correspondence: Change of Contact Information	Submission
August 18, 2006	-	CMC phone Request (Placebo)	Phone Record
August 18, 2006	037	CMC Amendment: Response to Phone Request on August 18, 2006	Submission
August 23, 2006		Type A Meeting Request/Clinical-Statistical Review Status	Phone Record
August 29, 2006	-	Request for Desk Copies of Type A Meeting Briefing Package	Mail Correspondence to FDA
August 29, 2006	-	Type A Meeting/ CMC Reviewers' Comments for August 16 <sup>th</sup> Meeting Package	Phone Record
August 29, 2006	-	CMC Reviewers' Comments for August 16 <sup>th</sup> Meeting Package	Fax from FDA
September 5, 2006	-	Request for Teleconference - Regulatory Options	Phone Record
September 07, 2006	_ ·	Teleconference Status - Regulatory Options	Phone Record
September 08, 2006	-	Teleconference Meeting Minutes – Regulatory Options	Teleconference Meeting Minutes
September 08, 2006	-	FDA Official Meeting Minutes of Sept 08 TC on DS and DP specs	Letter from FDA
September 14, 2006	038	Regulatory options Response and TC Meeting Minutes	Submission
September 14, 2006	-	Clinical Information Status/USAN/SPL/Regulatory Options Response	Phone Record
September 19, 2006		TC Request to Regulatory Options Response	Phone Record
September 21, 2006	-	Teleconference Meeting Minutes – Submission 038 Response	Teleconference Meeting Minutes
September 27, 2006	-	CMC Amendment Status/Phase 4 Study Info/USAN Name/ALPS CP/Label Negotiations	Phone Record
September 28, 2006	039	CMC Amendment - CMC Pending Info	Submission
September 29, 2006	<u>-</u>	Container and Carton Label Changes	Fax from FDA
October 04, 2006	-	CMC Info Request – Sept 28 CMC Amendment	Fax from FDA

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October 04, 2006	040	CMC Amendment – CMC Information Request to Submission 039	Submission
October 04, 2006	-	Label Request	Fax from FDA
October 05, 2006	041	Label Amendment – Response to October 04 Label Request	Submission
October 06, 2006	042	CMC Amendment – Updated CPM Test Instruction	Submission
October 06, 2006	-	Labeling Clinical Information Request	Fax from FDA
October 10, 2006	043	Label Amendment – Response to October 06 Clinical Information Label Request	Submission
October 12, 2006		Container/carton label change status/Phase 4 Study Info status/ALPS CP	Phone Record
October 12, 2006	•	August 1 <sup>st</sup> FDA Official Meeting Minutes	Fax from FDA
October 13, 2006	044	Label Amendment – Response to Container/Carton Label Change	Submission
October 16, 2006	-	Container/Carton Label Change – Storage Temperature	Fax from FDA
October 16, 2006	-	Container/Carton Storage Temperature Label Change/Phase 4 Study Info	Phone Record
October 16, 2006	<u>-</u>	Phase 4 Post-marketing Studies	Fax from FDA
October 17, 2006	<del>-</del>	Container/Carton Storage Temp Label Response	Fax from FDA
October 18, 2006	-	Container/Carton Storage Temp Label Questions/Phase 4 Study Teleconference	Phone Record
October 18, 2006	-	FDA Response to Container/Carton Storage Temp	Email from FDA
October 19, 2006	-	Draft Labeling	Phone Record
October 19, 2006	-	Draft Labeling – Word copies of FDA proposed PI and PPI	Email from FDA
October 19, 2006	<del>.</del> .	TC Meeting Minutes - Phase 4 Study Fax Memo	Teleconference Meeting Minutes
October 20, 2006	· -	Label Negotiations TC w/ FDA and Phase 4 Draft Protocol	Email to FDA
October 20, 2006	-	Label Negotiations TC w/ FDA and Phase 4 Draft Protocol Response	Email from FDA
October 20, 2006	_	USAN Name	Email from FDA
October 23, 2006	-	Phase 4 Draft Proposal	Email to FDA (not a submission)
October 23, 2006	045	Label Amendment - Response to Container/Carton Storage Temperature Statement	Submission
October 24, 2006	046	Label Amendment – Response to Oct 19 FDA-Proposed Draft Labeling	Submission
October 24, 2006	-	Draft Labeling/Action Letter	Phone Record

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October 25, 2006	-	Label Negotiations TC	Email from FDA
October 25, 2006	-	Label Negotiations TC/Phase 4 Draft Proposal for PK Study	Phone Record
October 25, 2006	-	Phase 4 Draft Proposal For PK Study	Email to FDA (not a submission)
October 26, 2006	-	PI-PPI Labeling/Phase 4 PK Study	Phone Record
October 26, 2006	047	General Correspondence - MediGene's Agreement to Phase 4 Commitment (PK Study)	Submission
October 26, 2006	-	FDA-Proposed PI Draft Labeling	Email from FDA
October 26, 2006	-	MediGene-Proposed PI Draft Labeling	Email to FDA (not a submission)
October 27, 2006	-	PI Draft Label Proposal	Phone
October 27, 2006	048	General Correspondence - MediGene's Agreement to Veregen <sup>TM</sup> Final Labeling	Submission
October 30, 2006	-	Veregen Labeling - Indication	Email from FDA
October 30, 2006	-	Veregen Labeling - Indication	Email to FDA
October 30, 2006	· <u>-</u> ·	Final Label	Phone Record
October 30, 2006	049	General Correspondence – Resubmission of MediGene's Agreement to Veregen Labeling	Submission
October 31, 2006	•	NDA Action Letter - Approval Letter	Fax from FDA
October 31, 2006	-	NDA Approval Letter	Phone Record
November 01, 2006	-	NDA Approval Letter - Complete Refax	Fax from FDA
November 08, 2006	050	Safety Update	Submission